LIST OF TABLES

Table C1-1
Support Services Area RCRA SWMUs, AOCs and Other Investigation Areas

LBNL Unit Number	Unit Name	Current Status	Status Approval Date	Module Section or RFI Report Where Unit is Described
Units Described in This Report				*Module Section*
SWMU 3-6	B75 Hazardous Waste Handling Facility	NFI	4/21/2000 (DTSC, 2000b)	C3.1
SWMU 4-3	B76 Motor Generator Pool Collection Trenches and Sump	NFI	9/30/1998 (DTSC, 1998)	C3.2
SWMU 5-4	B77 Plating Shop Floor and Sump	NFA	7/5/1996 (DTSC, 1996b)	C3.3
AOC 4-1	B76 Former Gasoline UST	NFA	7/15/1997 (COB, 1997b)	C3.4
AOC 4-2	B76 Former Diesel UST	NFA	7/15/1997 (COB, 1997b)	C3.4
AOC 4-5	Solvents in Groundwater South of B76	(a)		C4.3.1
AOC 5-4	B77 Sanitary Sewer	NFA	9/30/1998 (DTSC, 1998)	C3.5
(c)	Chicken Creek Former Poultry Research Station			C3.6
(c)	Grizzly Electrical Substation			C3.7
Units Described in Prior Reports				*Report*
SWMU 3-1	B69A Hazardous Waste Handling Facility	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 3-2	B69 Former Waste Oil UST	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 3-3	B69 Waste Oil UST	NFA	7/29/1996 (COB, 1996a)	LBNL, 1994l
SWMU 3-4	B69 Former Scrap Yard and Drum Storage Area	NFA	9/3/1998 (DTSC, 1998)	LBNL, 1995k
SWMU 3-5	B69A Storage Area Sump	NFI	8/25/1997 (DTSC, 1997)	LBNL, 1994l
SWMU 3-8	B75D UCB Hazardous Waste Handling Facility	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 4-1	B76 Former Waste Oil AST	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 4-2	B76 Oil/Water Separator, Basin, and Sumps	NFA	7/5/1996 (DTSC, 1996b)	LBNL, 1994l
SWMU 4-4	B76 Present and Former Waste Accumulation Area #1	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 4-5	B76 Waste Accumulation Area #2	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 4-6	B76 Present and Former Waste Accumulation Area #3	NFI	7/5/1996 (DTSC, 1996b)	LBNL, 1994l
SWMU 4-7	B76 Paint Shop Waste Recovery Unit	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 4-8	B76 Paint Shop Sink	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 5-1	B42 Scrap Yard	NFA	5/18/1995 (DTSC, 1995)	LBNL, 1994l
SWMU 5-2	B77 Present Waste Water Pre-Treatment Unit	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 5-3	B77 Future Waste Water Pre-Treatment Unit	NFA	9/14/1993 (DTSC, 1993a)	LBNL, 1992d
SWMU 5-5	B77 Plating Shop Annex	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 5-6	B77 Waste Accumulation Area	NFA	7/5/1996 (DTSC, 1996b)	LBNL, 1995k
SWMU 5-7	B77G Waste Accumulation Area	NFA	7/5/1996 (DTSC, 1996b)	LBNL, 1992d
SWMU 5-8	B77 Coolant Recycling Unit	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
SWMU 5-9	B77 Sand Blasting Room	NFA	5/18/1995 (DTSC, 1995)	LBNL, 1994l
SWMU 5-10	B77 Present and Former Yard Decontamination Areas	NFA	7/5/1996 (DTSC, 1996b)	LBNL, 1995k
AOC 3-1	B69A Hazardous Materials Storage and Delivery Area	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 3-2	B69/75 Fire Drill Area	NFA	7/5/1996 (DTSC, 1996b)	LBNL, 1995k
AOC 4-3	B76 Present Gasoline UST	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 4-4	B76 Present Diesel UST	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 5-1	B31 Storage Area	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 5-2	B77 Hazardous Materials Storage Area #1	NFA	4/6/1994 (DTSC, 1994a)	LBNL, 1992d
AOC 5-3	B77 Hazardous Materials Storage Area #2	NFA	7/5/1996 (DTSC, 1996b)	LBNL, 1995k
AOC 5-5	B77 Emergency Generator Pad	NFA	7/5/1996 (DTSC, 1996b)	LBNL, 1995k

NFI = No Further Investigation Status. Unit will be included in the site wide risk assessment.
NFA = No Further Action Status. Unit has been approved for exclusion from any additional RCRA corrective action process requirements.

(a) = NFA or NFI status is not applicable to groundwater AOCs.
(b) = Area where soil samples were collected during the RFI that was not designated a SWMU or AOC.

Note: Radiological SWMUs and AOCs are not included in this table.

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility																					
SB75-96-1-4	4.0	Jul-96	BC	<20	5.3	112	<2	<2	83		16	38	<10	<0.2	<10	102	<2	<4	<20	57	72
SB75-96-1-9	9.0			<20	<2	117	<2	<2	129		26	44	<10	<0.2	<10	68	<2	<4	<20	109	59
SB75-96-1-14.2	14.2			<20	<2	133	<2	<2	112		17	44	<10	<0.2	<10	83	<2	<4	<20	82	79
SB75-96-1-19.3	19.3			<20	2.4	96	<2	<2	66		14	36	<10	<0.2	<10	91	<2	<4	<20	47	78
SB75-96-1-24.1	24.1			<20	4.0	145	<2	<2	76		15	41	<10	<0.2	<10	93	<2	<4	<20	49	82
SB75-96-1-29	29.0			<20	2.0	150	<2	<2	65		13	33	<10	0.24	<10	85	<2	<4	<20	44	97
SB75-96-2-4.7	4.7			<20	5.8	109	<2	<2	73		15	61	<10	<0.2	<10	95	<2	<4	<20	45	94
SB75-96-2-9.5	9.5			<20	9.6	146	<2	<2	80		16	43	<10	<0.2	<10	111	<2	<4	<20	55	88
SB75-96-2-15.1	15.1			<20	<2	118	<2	<2	113		20	38	<10	<0.2	<10	66	<2	<4	<20	94	46
SB75-96-2-20	20.0			<20	<2	125	<2	<2	120		22	43	<10	<0.2	<10	67	<2	<4	<20	91	55
SB75-96-3-5.1	5.1			<20	5.8	109	<2	<2	77		15	45	<10	<0.2	<10	111	<2	<4	<20	49	86
SB75-96-3-10.1	10.1			<20	4.2	127	<2	<2	173		23	126	<10	<0.2	<10	**200**	<2	<4	<20	74	118
SB75-96-3-15	15.0			<20	5.3	151	<2	<2	206		30	32	<10	<0.2	<10	**277**	<2	<4	<20	78	57
SB75-96-3-19.5	19.5			<20	5.4	187	<2	<2	194		22	47	<10	<0.2	<10	**234**	<2	<4	<20	72	69
SB75-96-4-6-20.8Comp	20.8			<20	4.4	163	<2	<2	105		19	45	<10	<0.2	<10	**157**	<2	<4	<20	65	79
SB75A-96-1-3.8	3.8	Sep-96	BC	<10	1.9	129	<1	<1	114		20	35	<5	<0.2	<5	66	1.4	<2	<10	103	45
SB75A-96-1-12.5	12.5			<10	4.0	95	<1	<1	63		12	32	<5	<0.2	<5	75	<1	<2	<10	49	60
SB75A-96-1-17.8	17.8			<10	11.0	200	<1	<1	82		16	39	5.4	<0.2	<5	91	1.3	<2	<10	69	89
SB75A-96-1-22.5	22.5			<10	8.7	199	<1	<1	83		16	51	5.3	<0.2	<5	106	1.3	<2	<10	66	88
SB75AHW-97-1-1.0	1.0	Jul-97	BC	<10	4.5	116	<1	<1	56		13	29	5.3	<0.2	<5	55	<1	<2	<10	47	56
SB75AHW-97-1-3.0	3.0			<10	4.5	162	<1	1.0	113		24	61	6.4	<0.2	<5	138	<1	<2	<10	67	93
SB75AHW-97-2-1.1	1.1			<10	5.1	134	<1	<1	62		14	39	5.3	<0.2	<5	60	<1	<2	<10	62	69
SB75AHW-97-2-2.6	2.6			<10	3.5	65	<1	<1	43		13	38	<5	<0.2	<5	61	<1	<2	<10	42	56
SB75AHW-97-3-1.0	1.0			<10	4.6	138	<1	<1	48		14	39	5.1	<0.2	<5	52	<1	<2	<10	51	84
SB75AHW-97-3-2.6	2.6			<10	3.3	83	<1	<1	47		13	29	7.2	<0.2	<5	52	<1	<2	<10	47	73
SB75AHW-97-4-1.0	1.0			<10	6.5	138	<1	<1	50		13	24	7.4	<0.2	<5	57	<1	<2	<10	60	56
SB75AHW-97-4-2.5	2.5			<10	2.3	41	<1	<1	27		12	39	5.7	<0.2	<5	35	<1	<2	<10	37	101
SB75AHW-97-5-1.0	1.0			<10	5.1	135	<1	<1	48		12	38	<5	<0.2	<5	52	<1	<2	<10	55	72
SB75AHW-97-5-2.8	2.8			<10	6.1	134	<1	<1	64		15	48	7.0	<0.2	<5	87	<1	<2	<10	47	71
SB75AHW-97-6-1.0	1.0			<10	2.0	84	<1	<1	68		9.9	31	<5	<0.2	<5	71	<1	<2	<10	42	57
SB75AHW-97-6-2.9	2.9			<10	4.4	146	<1	<1	69		13	31	5.5	<0.2	<5	89	<1	<2	<10	45	65
SB75AHW-97-7-1.0	1.0			<10	4.2	153	<1	<1	99		17	26	<5	<0.2	<5	80	<1	<2	<10	79	50
SB75AHW-97-7-3.0	3.0			<10	4.9	152	<1	<1	75		14	37	<5	<0.2	<5	86	1.1	<2	<10	61	59

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SB75AHW-97-8-1.0	1.0	Jul-97	BC	<10	4.7	152	<1	<1	152		28	68	<5	<0.2	<5	167	1.3	<2	<10	65	70
Soluble analyses										0.08						<0.5					
SB75AHW-97-8-3.2	3.2			<10	1.4	216	<1	<1	130		28	44	<5	<0.2	<5	77	1.1	<2	<10	108	44
SB75AHW-97-9-1.3	1.3			<10	5.9	132	<1	<1	55		13	50	5.9	<0.2	<5	61	<1	<2	<10	61	75
SB75AHW-97-9-3.0	3.0			<10	7.4	207	<1	<1	96		16	36	5.6	<0.2	<5	117	<1	<2	<10	63	70
SB75AHW-97-9-4.7	4.7	Sep-97	BC	<10	6.8	122	<1	<1	83		14	33	5.4	<0.2	<5	108	<1	<2	<10	53	57
SB75AHW-97-10-1.0	1.0	Jul-97	BC	<10	4.8	118	<1	<1	46		11	23	<5	<0.2	<5	52	<1	<2	<10	51	50
SB75AHW-97-10-3.0	3.0			<10	4.5	128	<1	<1	177		27	34	5.9	<0.2	<5	272	<1	<2	<10	76	59
Soluble analyses										<0.05						<0.5					
SS-75AHW10-98 REDO		Jul-98	BC						69	0.1											
SB75AHW-97-11-1.0	1.0	Jul-97	BC	<10	5.1	136	<1	<1	53		14	54	6.5	<0.2	<5	64	<1	<2	<10	61	65
SB75AHW-97-11-2.5	2.5			<10	5.5	148	<1	<1	49		20	60	6.5	<0.2	<5	70	<1	<2	<10	55	67
SB75AHW-97-12-1.0	1.0			<10	4.6	119	<1	<1	51		12	45	5.0	<0.2	<5	52	<1	<2	<10	49	57
SB75AHW-97-12-2.8	2.8			<10	3.8	87	<1	<1	54		18	37	5.5	<0.2	<5	59	<1	<2	<10	50	59
SB75AHW-97-12-3.2	3.2			<10	4.9	104	<1	<1	58		15	46	6.3	0.27	<5	78	<1	<2	<10	53	75
SB75AHW-97-13-1.0	1.0	Mar-98	BC	<5	4.2	139	0.55	<0.5	46		11	29	9.6	<0.2	<2.5	46	<0.5	<1	<5	52	48
SB75AHW-97-13-2.8	2.8			<10	7.0	131	<1	<1	91		17	40	13	<0.2	<5	106	<1	<2	<10	67	76
SB75AHW-97-14-1.1	1.1			<5	3.3	37	<0.5	<0.5	29		6.3	12	5.8	<0.2	<2.5	31	<0.5	<1	<5	24	26
SB75AHW-97-14-3	3.0			<10	6.3	118	<1	<1	77		14	45	10	<0.2	<5	91	<1	<2	<10	54	67
SB75AHW-97-15-1.2	1.2			<5	4.5	110	0.61	<0.5	45		12	25	9.8	<0.2	<2.5	52	<0.5	<1	<5	47	40
SB75AHW-97-15-3.2	3.2			<10	2.8	181	<1	<1	91		15	37	20	<0.2	<5	100	1.1	<2	<10	62	68
SB75EHW-97-1-1	1.0	Aug-97	BC	<10	9.1	176	<1	<1	75		15	34	5.0	<0.2	<5	107	<1	<2	<10	55	65
SB75EHW-97-1-3.5	3.5			<10	9.0	306	<1	<1	155		16	59	<5	<0.2	<5	146	<1	<2	<10	68	66
SB75EHW-97-1-4.3	4.3	Sep-97	BC	<10	14	198	<1	<1	95		19	39	8.1	<0.2	<5	154	<1	<2	<10	57	80
SB75EHW-97-2-1.1	1.1	Aug-97	BC	<10	4.9	118	<1	<1	66		16	47	<5	<0.2	<5	82	<1	<2	<10	48	67
SB75EHW-97-2-3.5	3.5			<10	8.5	196	<1	<1	140		19	34	<5	<0.2	<5	217	<1	<2	<10	59	62
SB75EHW-97-2-5	5.0	Sep-97	BC	<10	10	199	<1	<1	113		18	48	5.3	<0.2	<5	189	<1	<2	<10	50	64
SB75EHW-97-3-1.1	1.1	Aug-97	BC	<10	4.7	117	<1	<1	74		14	36	<5	0.3	<5	85	<1	<2	<10	57	78
SB75EHW-97-3-2.8	2.8			<10	6.4	200	<1	<1	216		18	37	<5	<0.2	<5	181	<1	<2	<10	81	59
SS-75EHW3-98		Jul-98	BC						208	<0.1											
SB75FLHW-97-1-0.5	0.5	Aug-97	BC	<10	8.7	165	<1	<1	99		19	51	20	<0.2	<5	148	<1	<2	<10	61	101
SB75FLHW-97-1-3.8	3.8			<10	6.7	347	<1	<1	99		15	38	<5	0.22	<5	110	<1	<2	<10	55	66
SB75FLHW-97-2-0.5	0.5			<10	7.6	276	<1	<1	72		13	45	7.3	<0.2	<5	100	<1	<2	<10	56	84
SB75FLHW-97-2-3	3.0			<10	10	363	<1	<1	73		16	37	7.8	<0.2	<5	102	<1	<2	<10	53	80
SB75FLHW-97-3-0.5	0.5			<10	7.1	230	<1	<1	80		17	49	8.6	<0.2	<5	101	<1	<2	<10	60	89

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SB75FLHW-97-3-3.2	3.2	Aug-97	BC	<10	7.1	292	<1	<1	82		17	40	8.3	<0.2	<5	109	<1	<2	<10	60	79
SB75FLHW-97-4-0.5	0.5			<10	6.7	222	<1	<1	82		16	46	12	<0.2	<5	91	<1	<2	<10	64	107
SB75FLHW-97-4-2.6	2.6			<10	6.8	249	<1	<1	96		17	39	6.9	<0.2	<5	112	<1	<2	<10	65	77
SB75JHW-97-1-1.8	1.8			<10	6.0	183	<1	<1	88		15	40	5.3	<0.2	<5	105	<1	<2	<10	58	64
SB75JHW-97-2-1.3	1.3	Sep-97	BC	<10	6.4	155	<1	<1	75		14	39	<5	<0.2	<5	93	<1	<2	<10	49	57
SB75LYHW-97-1-0.8	0.8	Aug-97	BC	<10	8.6	143	<1	<1	103		20	40	5.9	<0.2	<5	150	1.1	<2	<10	59	74
SB75LYHW-97-1-2.8	2.8			<10	8.9	160	<1	<1	93		18	45	6.4	<0.2	<5	127	1.1	<2	<10	68	77
SB75LYHW-97-2-1.2	1.2			<10	4.4	84	<1	<1	242		20	71	<5	<0.2	<5	269	<1	<2	<10	53	80
SB75LYHW-97-2-3.7	3.7			<10	7.5	114	<1	<1	101		17	45	<5	<0.2	<5	176	<1	<2	<10	51	66
SS75LYHW2-98 REDO		Jul-98	BC						116	<0.1											
SB75LYHW-97-3-1	1.0	Aug-97	BC	<10	4.5	132	<1	<1	67		13	49	<5	<0.2	<5	88	<1	<2	<10	47	80
SB75LYHW-97-3-2.5	2.5			<20	9.3	167	<2	<2	75		17	35	<10	<0.2	<10	130	<2	<4	<20	48	62
SB75LYHW-97-4-1.2	1.2			<10	6.4	177	<1	<1	82		20	39	6.0	<0.2	<5	111	<1	<2	<10	56	69
SB75LYHW-97-4-2	2.0			<10	3.3	71	<1	<1	61		12	31	<5	<0.2	<5	94	<1	<2	<10	33	50
SB75LYHW-97-5-1	1.0			<10	6.5	94	<1	<1	82		15	41	5.3	<0.2	<5	110	<1	<2	<10	50	68
SB75LYHW-97-5-2.7	2.7			<10	8.1	161	<1	<1	84		16	41	5.2	<0.2	<5	106	<1	<2	<10	64	70
SB75LYHW-97-6-0.7	0.7			<10	6.2	108	<1	<1	72		14	38	<5	<0.2	<5	98	<1	<2	<10	49	69
SB75LYHW-97-6-2.8	2.8			<10	6.6	123	<1	<1	79		16	53	8.2	<0.2	<5	108	<1	<2	<10	53	84
SB75YHW-97-1-0.5	0.5			<10	4.0	125	<1	<1	50		11	42	<5	<0.2	<5	69	<1	<2	<10	39	67
SB75YHW-97-1-3.2	3.2			<10	6.2	170	<1	<1	85		15	48	6.0	<0.2	<5	95	<1	<2	<10	64	84
SB75YHW-97-2-0.8	0.8			<10	6.7	195	<1	<1	76		15	43	6.2	<0.2	<5	98	<1	<2	<10	58	70
SB75YHW-97-2-3	3.0			<10	4.8	126	<1	<1	77		14	49	5.8	<0.2	<5	94	<1	<2	<10	42	77
SB75YHW-97-3-0.8	0.8			<10	7.3	299	<1	<1	93		17	42	6.0	<0.2	<5	123	<1	<2	<10	55	73
SB75YHW-97-3-3	3.0			<10	4.8	77	<1	<1	46		8.6	19	<5	<0.2	<5	49	<1	<2	<10	33	40
SB75YHW-97-4-0.7	0.7			<10	11	221	<1	<1	92		17	44	6.7	<0.2	<5	137	1.2	<2	<10	53	79
SB75YHW-97-4-2.8	2.8			<10	9.8	392	<1	<1	100		17	46	6.3	<0.2	<5	124	<1	<2	<10	66	77
SB75YHW-97-5-0.8	0.8			<10	5.6	154	<1	<1	72		15	49	5.4	<0.2	<5	101	1.0	<2	<10	50	79
SB75YHW-97-5-3	3.0			<10	9.2	316	<1	<1	80		16	54	5.8	<0.2	<5	119	<1	<2	<10	49	79
SB75YHW-97-6-2	2.0			<10	4.5	16	<1	<1	30		6.8	8.0	<5	<0.2	<5	28	<1	<2	<10	21	21
SB75YHW-97-6-3.2	3.2			<10	4.7	32	<1	<1	31		6.6	16	<5	<0.2	<5	35	<1	<2	<10	22	27
SB75YHW-97-7-1.2	1.2			<10	7.2	190	<1	<1	75		16	43	5.9	<0.2	<5	107	1.3	<2	<10	51	78
SB75YHW-97-7-3	3.0			<10	15	170	<1	<1	114		19	55	6.8	<0.2	<5	158	1.4	<2	<10	58	83
SB75YHW-97-8-1.3	1.3			<10	9.2	147	<1	<1	101		16	53	6.1	<0.2	<5	128	1.1	<2	<10	58	79
SB75YHW-97-8-3.5	3.5			<10	10	164	<1	<1	90		20	37	6.7	<0.2	<5	143	1.2	<2	<10	54	70
SB75YHW-97-8-4.3	4.3	Sep-97	BC	<10	18	258	<1	<1	108		17	36	5.8	<0.2	<5	178	<1	<2	<10	47	63
SB75YHW-97-8-5.4	5.4			<10	10	182	<1	<1	204		19	32	<5	<0.2	<5	216	<1	<2	<10	69	54

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SB75YSWR-97-1-2.6	2.6	Oct-97	BC	<20	7.4	258	<2	<2	65		17	34	<10	0.24	<10	95	<2	<4	<20	56	68
SB75YSWR-97-1-3.6	3.6			<10	14	293	<1	<1	93		17	54	6.3	<0.2	<5	156	1.5	<2	<10	54	82
SB75YSWR-97-2-2.5	2.5			<10	9.5	188	<1	<1	131		16	45	<5	<0.2	<5	121	<1	<2	<10	65	71
SB75YSWR-97-2-3.5	3.5			<10	8.3	165	<1	<1	90		17	71	6.7	<0.2	<5	114	1.3	<2	<10	57	86
SB75A-99-38Comp		Dec-99	BC	<5	3.5	120	<0.5	<0.5	100		13	30	3	0.28	<2.5	140	<2.5	<4	<5	55	42
MW75-96-20-5.2	5.2	Oct-96	BC	<0.9	<1	8.4	<0.5	<1	<1		<5	<1	<5	<0.2	<4	<5	<1	<0.4	<4	1.8	<5
MW75-96-20-11	11.0	Feb-97	BC	<10	3.2	161	<1	<1	107	<0.1	21	24	<5	<0.2	<5	61	<1	<2	<10	90	48
MW75-96-20-20.5	20.5			<10	11	152	<1	<1	71		14	31	5.0	<0.2	<5	85	<1	<2	<10	54	66
MW75-96-20-30.5	30.5			<10	6.3	206	<1	<1	72		15	37	6.1	<0.2	<5	89	<1	<2	<10	55	70
MW75-96-20-40.2	40.2			<10	2.9	167	<1	<1	60		12	25	<5	<0.2	<5	62	<1	<2	<10	57	53
MW75-96-20-50.8	50.8			<10	6.9	242	<1	<1	83		16	46	7.5	<0.2	<5	91	<1	<2	<10	53	68
MW75-98-14Comp		Sep-98	BC	<10	7.3	231	<1	<1	113	0.3	18	39	9.2	<0.2	<5	166	<1	<2	<10	64	67
MW75-98-15Comp				<20	6.5	356	<2	<2	93		16	41	<10	<0.2	<10	142	<2	<8	<20	62	63
MW75-99-4-3.0	3.0	Jul-99	BC	<10	10	123	<1	<1	117	<0.1	17	32	<5	<0.2	<5	168	<1	<2	<10	57	60
MW75-99-4-3.0 (WET TEST)	3.0								<0.1mg/L							<0.5mg/L					
MW75-99-4-4.5	4.5			<10	17	114	<1	<1	97		17	30	5	<0.2	<5	154	1.1	<2	<10	60	66
MW75-99-4-6.5	6.5			<10	12	140	<1	<1	97		17	30	<5	<0.2	<5	192	1.2	<2	<10	63	63
MW75-99-4-9.2	9.2			<10	5.5	307	<1	<1	97		17	34	<5	<0.2	<5	154	<1	<2	<10	56	57
MW75-99-4-13.5	13.5			<10	2.3	291	<1	<1	86		14	36	<5	<0.2	<5	120	<1	<2	<10	56	55
MW75-99-4-18.8	18.8			<10	6.4	226	1.0	<1	74		14	34	5.3	<0.2	<5	132	1.3	<2	<10	71	74
MW75-99-4-28.5	28.5			<10	1.2	98	<1	<1	121		13	27	<5	<0.2	<5	154	1.0	<2	<10	52	49
MW75-99-4-33.7	33.7			<10	1.7	149	<1	<1	113		13	24	<5	<0.2	<5	142	<1	<2	<10	63	43
BS-MW75-99-6-Comp		Nov-99	BC	<25	9.3	340	<2.5	<2.5	91		18	34	<12	<0.2	<12	150	<2.5	<5	<25	68	74
BS-MW75-99-7-Comp		Nov-99	BC	<5	3.6	180	0.56	<0.5	70		20	38	4.1	<0.2	<2.5	110	<2.5	<1	<5	59	54
BS-MW75-99-8-Comp		Dec-99	BC	<10	12.0	290	<1	<1	91		15	100	5.8	<0.2	<5	130	<2	<2	<10	82	93
MW91-4-S1	5.0	Nov-91	Q	<2	1	150	0.6	<0.2	74		15	35	14	<0.2	<0.6	100	<2	<0.2	10	57	67
MW91-4-S2	10.0			<2	2	140	0.7	<0.2	88		16	48	16	<0.2	<0.6	97	<2	<0.2	14	62	84
MW91-4-S3	18.5			<2	<1	220	0.8	<0.2	85		19	26	14	<0.2	<0.6	76	<2	<0.2	11	71	49
MW91-4-S4	23.5			<2	1	140	0.8	<0.2	77		17	29	16	<0.2	<0.6	96	<2	<0.2	16	62	77
MW91-4-S5	34.5			<2	1	220	0.7	0.3	62		15	29	15	<0.2	<0.6	100	<2	<0.2	4	48	68
MW91-4-S6	44.5			<2	<1	170	0.6	0.3	60		15	36	13	<0.2	<0.6	88	<2	<0.2	10	42	70
MW91-4-S7	54.5			<2	<1	240	0.6	<0.2	65		14	30	13	<0.2	<0.6	84	<2	<0.2	4	53	66

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SWMU 4-3: Building 76 Motor Pool Collection Trenches																					
AOC 4-1, 4-2: Building 76 Former Diesel and Gasoline USTs																					
SS76-94-01-6	6	Jun-94	BC	<5	3.4	94	<0.5	<0.5	42		9	44	8.1	<0.2	<2.5	51	<0.5	<1	<5	40	66
SS76-94-01-11	11			<5	1.9	66	<0.5	<0.5	111		21	51	4.4	<0.2	<2.5	161	<0.5	<1	<5	65	64
SS76-94-01-18	18			<5	3.4	89	<0.5	<0.5	81		16	72	6.7	<0.2	<2.5	118	<0.5	<1	<5	55	82
SS76-94-01-21	21			<5	0.95	94	<0.5	0.54	56		15	49	4.9	<0.2	<2.5	73	<0.5	<1	<5	46	67
SS76-94-02-6	6			<5	6.1	70	<0.5	<0.5	30		7.5	25	11	<0.2	<2.5	55	<0.5	<1	<5	20	56
SS76-94-02-16	16			<5	0.75	76	<0.5	<0.5	55		12	44	4.6	<0.2	<2.5	74	<0.5	<1	<5	49	67
SS76-94-02-20.5	20.5			<5	2.9	90	<0.5	<0.5	56		11	51	4.6	<0.2	<2.5	68	<0.5	<1	<5	40	65
SS76-94-03-5	5			<5	1.6	120	<0.5	<0.5	110		24	53	4.5	<0.2	<2.5	156	<0.5	<1	<5	98	63
SS76-94-03-10	10			<5	2.2	98	<0.5	<0.5	243		26	45	5.2	<0.2	<2.5	262	<0.5	<1	<5	75	59
SS76-94-03-15.5	15.5			<5	1.8	98	<0.5	<0.5	151		20	39	4.1	<0.2	<2.5	188	<0.5	<1	<5	63	59
SS76-94-03-20.5	20.5			<5	3.2	108	<0.5	<0.5	84		16	38	4.0	<0.2	<2.5	103	<0.5	<1	<5	50	63
SB76-95-1-11	11	Jun-95	BC	<5	1.9	104	0.50	<0.5	113		19	40	4.6	<0.2	<2.5	165	<0.5	<1	<5	65	54
SB76-95-1-21	21			<5	3.0	109	<0.5	0.55	62		12	43	5.9	<0.2	<2.5	79	<0.5	<1	<5	36	60
SB76-95-2-10.4	10.4			<5	2.4	56	<0.5	<0.5	253	ND*	22	50	<2.5	<0.2	<2.5	294	<0.5	<1	7.1	81	60
SB76-95-2-20.7	20.7			<5	16	102	<0.5	<0.5	54		13	40	3.6	<0.2	<2.5	78	<0.5	<1	5.4	38	61
SB76-95-3-10.5	10.5			<5	1.8	64	<0.5	<0.5	77		16	30	5.0	<0.2	4.6	98	<0.5	<1	<5	50	51
SB76-95-3-20.7	20.7			<5	0.79	69	<0.5	<0.5	45		11	33	5.4	<0.2	<2.5	72	<0.5	<1	<5	29	57
SB76-95-4-10.3	10.3			<5	0.72	77	<0.5	<0.5	87		16	29	3.6	<0.2	<2.5	96	<0.5	<1	<5	59	46
SB76-95-4-15.6	15.6			<5	2.4	117	<0.5	<0.5	98		13	41	5.3	<0.2	<2.5	171	<0.5	<1	<5	42	60
AOC 4-1, 4-2: Building 76 Former Diesel and Gasoline USTs																					
BS76-92-25-5.5	5.5	Sep-92	C	<1	12	81	0.17	<0.05	47		14	34	2	<0.05	1	24	3	<0.25	<2	33	51
BS76-92-25-16	16			1.6	6.9	71	0.37	<0.05	26		9.4	26	2	<0.05	<0.25	67	2	<0.25	<2	21	110
BS76-92-25-26	26			<1	7.5	190	0.14	<0.05	48		10	39	2.3	<0.05	<0.25	82	0.6	<0.25	<2	26	55
BS76-92-25-36	36			<1	7.1	110	0.16	2.5	42		10	27	2.5	0.06	0.35	66	<0.5	<0.25	<2	27	67
BS76-93-7-5.5	5.5	Aug-93	C	3.0	<0.25	30	0.10	2.1	49		15	34	<0.5	0.06	3.2	130	<0.5	1.0	<2	21	26
BS76-93-7-15.5	15.5			<1	<0.25	54	0.28	3.0	38		8.8	42	<0.5	0.06	3.7	130	<0.5	1.1	<2	42	58
BS76-93-7-26	26			<1	5.0	120	0.29	4.0	43		16	58	5.4	0.12	3.3	91	<0.5	2.0	<2	49	66
BS76-93-7-35.5	35.5			3.1	13	180	0.36	2.9	34		13	25	<0.5	<0.05	5.7	68	<0.5	1.8	<2	20	43

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
BS-W76-97-3-16-36comp	16-36	Feb-97	BC	<10	8.2	118	<1	<1	120	<0.1	20	34	5.8	<0.2	<5	187	<1	<2	<10	60	81
BS-W76-97-4-16-38.5comp	16-38.5			<10	3.1	124	<1	<1	128	<0.1	19	36	<5	<0.2	<5	152	<1	<2	<10	77	60
SWMU 5-4: Building 77 Plating Shop Floor and Sump																					
BS77Plate-94-01-2	2	Jun-94	BC	<5	7.4	166	0.62	<0.5	63		17	27	7.5	<0.2	<2.5	90	<0.5	<1	<5	56	100
BS77Plate-94-01-6.5	6.5			<5	7.6	199	0.61	<0.5	76		15	43	7.5	<0.2	<2.5	88	<0.5	<1	<5	56	86
BS77Plate-94-01-10.5	10.5			<5	8.7	608	0.56	<0.5	74		15	44	7.1	<0.2	<2.5	91	<0.5	<1	<5	54	89
BS77Plate-94-02-1	1			<5	6.8	162	0.53	<0.5	87		16	44	6.8	<0.2	<2.5	95	<0.5	<1	<5	54	81
BS77Plate-94-02-3	3			<5	7.1	470	<0.5	<0.5	72		13	65	6.6	<0.2	<2.5	87	<0.5	<1	<5	51	91
BS77Plate-94-02-6	6			<5	7.1	261	<0.5	<0.5	72		14	48	5.9	<0.2	<2.5	98	<0.5	<1	<5	45	90
BS77Plate-94-02-8	8			<5	8.9	320	<0.5	<0.5	70		13	39	5.7	3.7	<2.5	83	2.3	<1	<5	47	87
BS77Plate-94-03-1	1			<5	3.3	267	0.69	<0.5	52		8.5	244	5.7	<0.2	<2.5	50	<0.5	<1	<5	40	158
BS77Plate-94-03-3	3			<5	15.0	94	0.58	<0.5	61		16	46	7.7	<0.2	<2.5	86	<0.5	<1	<5	58	88
BS77Plate-94-03-6	6			<5	8.5	137	0.58	<0.5	72		14	31	7.5	<0.2	<2.5	82	<0.5	<1	<5	59	82
BS77Plate-94-03-8	8			<5	6.6	175	<0.5	<0.5	71		12	31	5.0	<0.2	<2.5	73	<0.5	<1	<5	50	69
BS77Plate-94-04-1	1			<5	5.2	169	<0.5	<0.5	56		12	33	4.8	<0.2	<2.5	81	<0.5	<1	<5	49	71
BS77Plate-94-04-3	3			<5	6.4	103	0.58	<0.5	78		14	45	6.9	<0.2	<2.5	89	<0.5	<1	<5	53	83
BS77Plate-94-04-6	6			<5	7.1	118	0.58	<0.5	78		15	43	7.5	<0.2	<2.5	91	<0.5	<1	<5	57	86
BS77Plate-94-04-8	8			<5	6.9	192	0.54	<0.5	75		14	32	6.6	<0.2	<2.5	88	<0.5	<1	<5	52	75
BS77Plate-94-05-1	1			<5	1.9	111	<0.5	<0.5	93		19	42	<2.5	<0.2	<2.5	41	<0.5	<1	<5	80	43
BS77Plate-94-05-3	3			<5	2.3	171	0.52	<0.5	77		22	80	3.2	<0.2	<2.5	57	<0.5	<1	<5	70	100
BS77Plate-94-05-6	6			<5	5.8	84	<0.5	<0.5	61		13	35	5.5	<0.2	<2.5	82	<0.5	<1	<5	46	77
BS77Plate-94-05-9	9			<5	7.6	133	0.56	<0.5	74		15	36	6.8	<0.2	<2.5	95	<0.5	<1	<5	57	81
SS-77PlExc-98-1-1.8	1.8	Dec-98	BC	<10	6.7	135	<1	<1	74	0.9	15	35	13	<0.2	<5	95	<1	<2	<10	53	65
SS-77PlExc-98-2-2	2			<10	8.7	273	<1	<1	70	0.1	13	32	9.8	<0.2	<5	102	<1	<2	<10	52	79
SS-77-99-1-1.7	1.7	Dec-99	BC	<5	0.9	13	0.58	<0.5	4.0		<2.5	4.6	<2.5	<0.2	<2.5	6.4	<0.5	<1	<5	4.2	9.4
SS-77-99-3-1.7	1.7			<10	1.0	92	<1	<1	67		20	42	<5	<0.2	<5	72	<2	<2	<10	79	57
SS-77-99-4-1.6	1.6			<5	9.1	87	0.93	<0.5	25		4.7	20	5.1	<0.2	<2.5	36	<1	<1	<5	19	35
SS-77-99-5-1.7	1.7			<5	5.2	94	0.96	<0.5	61		13	46	5.5	<0.2	<2.5	82	<0.5	<1	<5	57	64
SS-77-00-2-1.4	1.4	Apr-00	BC	<5	2.7	42	<0.5	<0.5	36		17	54	<2.5	<0.2	3.1	47	0.5	<1	<5	74	32
SS-77-00-3-1.5	1.5			<5	4.4	99	<0.5	<0.5	37		11	28	7.1	<0.2	<2.5	46	<0.5	<1	<5	44	42
SS-77-00-4-1.5	1.5			<10	3.0	46	<1	1.4	41		13	37	7.0	<0.2	<5	55	<1	<2	<10	43	56
SS-77-00-5-1.3	1.3			<10	4.0	100	<1	1.7	85		12	46	5.1	<0.2	<5	92	<1	<2	<10	50	63
SS-77-00-6-1.5	1.5			<10	6.2	230	<1	<1	74		16	37	5.8	<0.2	<5	100	<1	<2	<10	50	67
SS-77-00-7-1.8	1.8			<10	5.5	240	<1	<1	81		17	81	<5	<0.2	<5	120	<1	<2	<10	62	88

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SS-77-00-8-1.8	1.8	Apr-00	BC	<10	3.6	270	<1	<1	83		19	73	5.4	<0.2	<5	130	<1	<2	<10	53	84
SS-77-00-9-1.9	1.9			<10	9.5	230	<1	<1	68		15	33	5.8	<0.2	<5	96	<1	<2	<10	55	95
SS-77-00-11-1.4	1.4			<10	1.3	120	<1	<1	77		15	54	5.5	<0.2	<5	120	<1	<2	<10	51	66
SS-77-00-10-1.5	1.5			<10	4.0	160	1.0	1.7	78		14	37	7.1	<0.2	<5	96	<1	<2	<10	63	66
AOC 5-4: Building 77 Sanitary Sewer System																					
SS77E-3-6.5	6.5	Feb-92	Q	<2	4.0	75	0.5	<0.2	66		12	21	8	<0.2	<0.6	74	<2	0.5	<2	42	41
BS79-1-15.5	1.8	Aug-92	C	1.3	0.6	85	<0.05	0.67	76		12	29	21	<0.05	<0.25	93	<0.5	<0.25	<2	38	130
BS79-2-11.5	11.5			<1	3.5	35	<0.05	0.19	47		7.3	14	7.8	0.05	<0.25	38	0.62	<0.25	<2	26	38
BS79-2-18	18			<1	0.89	94	<0.05	0.99	72		17	32	8.7	0.26	<0.25	140	<0.5	<0.25	<2	30	94
MW91-1-5	5	May-91	MT	<2	3	48	0.3	<0.2	45	<5	17	13	3	<0.2	<0.6	27	<2	<0.2	<3	33	40
MW91-1-10	10			<2	4	110	0.5	<0.2	42	<5	8.4	14	7	<0.2	<0.6	51	<2	<0.2	<3	25	42
MW91-1-15	15			<2	2	73	0.6	<0.2	58	<5	13	31	6	<0.2	<0.6	82	<2	<0.2	<3	54	56
MW91-1-20	20			<2	2	290	0.7	<0.2	63	<5	17	20	9	<0.2	<0.6	96	<2	<0.2	<3	46	68
MW91-1-25	25			<2	2	120	0.5	<0.2	57	<5	13	25	6	<0.2	<0.6	88	<2	<0.2	<3	39	52
MW91-1-31.5	31.5			<20	4	170	0.7	<2	87	<5	16	63	<20	<0.2	<0.6	110	<2	<0.2	<30	51	140
MW91-1-35	35			<2	5	140	0.7	<0.2	66	<5	15	31	7	<0.2	<0.6	98	<2	<0.2	<3	36	58
MW91-1-39.5	39.5			<2	6	57	0.5	<0.2	72	<5	13	26	4	<0.2	<0.6	90	<2	<0.2	<3	38	48
MW91-2-5	5	May-91	MT	<2	3	76	0.6	<0.2	56		20	30	4	<0.2	<0.6	29	<2	<0.2	<3	45	51
MW91-2-10	10			<2	3	72	0.6	<0.2	64		19	19	7	<0.2	<0.6	36	<2	<0.2	<3	59	104
MW91-2-15	15			<2	3	130	0.5	<0.2	65		14	29	7	<0.2	<0.6	80	<2	<0.2	<3	47	93
MW91-2-20	20			<2	2	130	0.6	<0.2	58		15	26	8	<0.2	<0.6	68	<2	<0.2	3	53	28
MW91-2-30.5	30.5			<2	<1	140	0.6	<0.2	59		15	26	7	<0.2	<0.6	77	<2	<0.2	5	47	35
MW91-2-35.5	35.5			<2	1	100	0.5	<0.2	53		13	28	8	<0.2	<0.6	77	<2	<0.2	4	39	34
MW91-2-40.5	40.5			<2	4	88	0.6	<0.2	64		22	41	5	<0.2	<0.6	62	<2	<0.2	4	66	20
MW91-2-45	45			<2	2	110	0.9	<0.2	92		17	27	12	<0.2	<0.6	110	<2	<0.2	9	64	69
MW91-2-60.5	60.5			<2	2	330	0.9	<0.2	81		20	25	11	<0.2	<0.6	110	<2	<0.2	10	62	63
MW77-92-10-5.8	5.8	Mar-92	Q	<2	3	120	0.6	<0.2	38		11	16	6	<0.2	<0.6	66	<2	0.2	<3	49	38
MW77-92-10-10.5	10.5			<2	10	150	0.8	0.4	93		19	46	11	<0.2	<0.6	130	<2	0.3	9	51	70
MW77-92-10-15.3	15.3			<2	14	220	0.8	<0.2	77		17	34	10	0.4	<0.6	110	<2	0.2	<3	35	65
MW77-92-10-21	21			<2	6	170	0.7	0.6	64		14	29	11	<0.2	<0.6	85	<2	<0.2	<3	42	60
MW77-92-10-31	31			<2	6	300	0.7	0.3	75		15	24	12	<0.2	<0.6	90	<2	<0.2	<3	57	61
MW77-92-10-40.3	40.3			<2	7	320	0.8	<0.2	80		16	25	13	<0.2	<0.6	97	<2	0.2	5	50	70
MW77-92-10-50.5	50.5			<2	8	310	0.8	0.3	76		15	21	13	<0.2	<0.6	90	<2	0.2	4	51	68
MW77-92-10-71	71			<2	11	330	1	<0.2	88		20	26	14	<0.2	<0.6	110	<2	0.2	7	75	75

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SB77-94-1-3.8	3.8	Apr-94	BC	<5	5.6	237	0.56	<0.5	78		16	33	5.7	<0.2	<2.5	86	<0.5	<1	<5	45	66
SB77-94-1-9.2	9.2			<5	1.6	131	<0.5	<0.5	58		11	18	2.5	<0.2	<2.5	79	<0.5	<1	<5	35	43
SB77-94-1-13.7	13.7			<5	0.53	59	<0.5	<0.5	64		9.1	16	<2.5	<0.2	<2.5	66	<0.5	<1	<5	38	37
SB77-94-2-4	4			<5	6.4	242	0.51	<0.5	58		11	23	2.8	<0.2	<2.5	81	<0.5	<1	<5	39	52
SB77-94-2-8.7	8.7			<5	3.5	165	0.53	<0.5	76		12	26	5.0	<0.2	<2.5	107	1.1	<1	<5	38	58
SB77-94-2-13.7	13.7			<5	6.1	252	0.64	<0.5	67		13	30	4.5	<0.2	<2.5	92	0.54	<1	<5	47	63
SB77-94-2-18.9	18.9			<5	3.0	193	<0.5	<0.5	60		11	19	<2.5	<0.2	<2.5	93	0.54	<1	<5	39	43
MW77-94-5-4.3	4.3	May-94	BC	<5	<0.5	74	<0.5	<0.5	45		17	16	<2.5	<0.2	<2.5	26	<0.5	<1	<5	32	43
MW77-94-5-9.3	9.3			<5	1.3	87	<0.5	<0.5	66		14	24	2.6	<0.2	<2.5	53	<0.5	<1	<5	58	45
MW77-94-5-14.1	14.1			<5	4.1	125	<0.5	<0.5	39		9.8	21	4.5	<0.2	<2.5	62	<0.5	<1	<5	29	46
MW77-94-5-19	19			<5	1.4	96	<0.5	<0.5	46		14	31	<2.5	<0.2	<2.5	54	<0.5	<1	<5	40	37
MW77-94-5-29.5	29.5			<5	6.0	131	0.54	<0.5	60		16	36	5.2	0.31	<2.5	104	<0.5	<1	<5	39	73
MW77-94-5-38.9	38.9			<5	6.7	337	0.67	<0.5	78		15	34	7.0	<0.2	<2.5	110	<0.5	<1	<5	45	87
MW77-94-5-48.5	48.5			<5	3.4	384	0.61	<0.5	72		19	41	9.0	0.27	<2.5	126	<0.5	<1	<5	41	71
MW77-94-5-58.5	58.5			<5	6.7	268	0.62	<0.5	65		15	28	5.0	<0.2	<2.5	84	<0.5	<1	<5	57	77
MW77-94-6-3.7	3.7	May-94	BC	<5	1.1	87	<0.5	<0.5	62		20	27	3.0	<0.2	<2.5	34	<0.5	<1	<5	59	57
MW77-94-6-9.3	9.3			<5	0.71	63	<0.5	<0.5	61		18	18	<2.5	<0.2	<2.5	28	<0.5	<1	<5	52	58
MW77-94-6-14.2	14.2			<5	5.2	106	<0.5	0.61	70		14	46	5.8	<0.2	<2.5	92	<0.5	<1	<5	49	68
MW77-94-6-24.2	24.2			<5	4.6	211	<0.5	<0.5	66		13	36	6.9	<0.2	<2.5	89	<0.5	<1	<5	43	64
MW77-94-6-34	34			<5	1.9	92	<0.5	<0.5	82		18	27	5.2	<0.2	<2.5	84	<0.5	<1	<5	71	68
MW77-94-6-44	44			<5	2.1	139	<0.5	<0.5	52		17	46	3.8	<0.2	<2.5	61	<0.5	<1	<5	62	51
MW77-94-6-54.5	54.5			<5	9.2	179	<0.5	<0.5	86		15	38	4.8	<0.2	<2.5	83	<0.5	<1	<5	50	61
MW77-94-6-63.5	63.5			<5	5.1	141	<0.5	<0.5	67		13	48	5.6	<0.2	<2.5	81	<0.5	<1	<5	48	70
SS-MW77-97-10-D1CompA		May-97	BC	<10	6.0	162	<1	<1	77		14	29	<5	<0.2	<5	97	<1	<2	<10	45	62
SS-MW77-97-10-D2CompA				<10	8.0	135	1.1	<1	89		17	37	7.5	<0.2	<5	113	<1	<2	<10	55	76
SS-MW77-97-10-D3CompA				<10	4.0	109	1.1	<1	308	<0.1	12	26	5.0	<0.2	13	100	<1	<2	<10	53	51
SS-MW77-97-10-D4CompA				<10	4.6	123	<1	<1	194	<0.1	10	77	17	<0.2	9.6	72	<1	<2	<10	45	80
Other Soil Sampling																					
BS-SB69A-99-1-Comp1		Oct-99	BC	<10	3.7	90	<1	<1	60		13	29	<5	<0.2	<5	89	<1	<2	<10	45	44
BS-SB69A-99-1-Comp2				<10	2.4	115	<1	<1	69		12	31	11	<0.2	<5	70	<1	<2	<10	64	51
SS-77-99-1-1.7	1.7	Dec-99	BC	<5	0.9	13	0.58	<0.5	4.0		<2.5	4.6	<2.5	<0.2	<2.5	6.4	<0.5	<1	<5	4.2	9.4
SS-77-99-3-1.7	1.7			<10	1.0	92	<1	<1	67		20	42	<5	<0.2	<5	72	<1	<2	<10	79	57

Table C3-1
Soil Sampling Results
Metals
(Concentrations in mg/kg)

				Sb	As	Ba	Be	Cd	Cr	CrVI	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Maximum Background Concentrations				5.5	19.1	323.6	1.0	2.7	99.6		22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	7.6	74.3	106.1
USEPA Region 9 PRGs				31	0.39	5400	150	37	210	30	4700	2900	400	23	390	1600	390	390	6.3	550	23000
California Modified PRGs								9		0.2						150					
Sample ID	Depth (ft)	Date	Lab																		
SS-77-99-4-1.6	1.6	Dec-99	BC	*<5*	9.1	87	0.93	*<0.5*	25		4.7	20	5.1	*<0.2*	*<2.5*	36	*<0.5*	*<1*	*<5*	19	35
SS-77-99-5-1.7	1.7			*<5*	5.2	94	0.96	*<0.5*	61		13	46	5.5	*<0.2*	*<2.5*	82	*<0.5*	*<1*	*<5*	57	64
BS-SB31-97-1-RecompA		Sep-97	BC	*<10*	4.6	152	*<1*	*<1*	97		19	39	*<5*	*<0.2*	*<5*	73	*<1*	*<2*	*<10*	85	55
BS-SB31-97-2-RecompA				*<10*	4.5	149	*<1*	*<1*	78		19	48	*<5*	*<0.2*	*<5*	61	*<1*	*<2*	*<10*	81	66
BS-SB31-97-3-RecompA				*<10*	5.3	175	*<1*	*<1*	78		18	40	5.9	*<0.2*	*<5*	86	*<1*	*<2*	*<10*	63	74
Poultry Research Pit																					
SS-CKPit-97-1A-2.5	2.5	Feb-97	BC	*<10*	3.8	167	*<1*	*<1*	110		11	48	6.4	*<0.2*	*<5*	69	*<1*	*<2*	*<10*	83	84
SS-CKPit-97-2A-2.5	2.5			*<10*	6.6	164	*<1*	*<1*	114		15	59	6.6	*<0.2*	*<5*	68	*<1*	*<2*	*<10*	96	54
SS-CKPit-97-3A-2	2			*<50*	20	160	*<5*	*<5*	244		26	202	*<25*	*<0.2*	*<25*	132	*<5*	*<10*	*<50*	102	72
SS-CKPit-97-4A-2	2			*<10*	2.5	184	*<1*	*<1*	112		14	48	*<5*	*<0.2*	*<5*	68	*<1*	*<2*	*<10*	80	54
SS-CKPit-97-5A-5	5			*<10*	6.0	159	*<1*	*<1*	104		19	33	5.3	*<0.2*	*<5*	106	*<1*	*<2*	*<10*	75	65
SS-CKPit-97-6A-5	5			*<10*	5.1	175	*<1*	*<1*	112		18	33	5.5	*<0.2*	*<5*	96	*<1*	*<2*	*<10*	81	59
SS-CKPit-97-7A-5	5			*<10*	5.2	197	*<1*	*<1*	116		17	33	5.3	*<0.2*	*<5*	103	*<1*	*<2*	*<10*	91	63
SS-CKPit-97-8A-4.5	4.5			*<10*	4.9	245	*<1*	*<1*	118		22	34	*<5*	*<0.2*	*<5*	134	*<1*	*<2*	*<10*	94	61
SS-CKPit-97-9A-5	5			*<10*	4.5	137	*<1*	*<1*	105		14	35	5.1	*<0.2*	*<5*	95	*<1*	*<2*	*<10*	74	69

BC = Analysis by BC Laboratories
C = Analysis by Chromalab
CLS = Analysis by California Laboratory Services
MT = Analysis by Med-Tox
Q = Analysis by Quanteq

	= Not analyzed
258	= Concentration above background and PRG
<	= Not detected above reporting limit

ND* = No soluble Cr or CrVI were detected by Waste Extraction Test (WET).

Table C3.1-1
Soil Sampling Results (mg/kg)
SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons, Cyanide

				VOCs				SVOCs	Pesticides & PCBs	PCBs				Crude/ Waste Oil	TPH-Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected			Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254				
			PRG	43	5.7	2.8				0.22	0.22	0.22	0.22				11
Sample ID	Depth (ft)	Date	Lab														
SB75-96-1-4	4.0	Jul-96	BC	0.20	<0.005	0.015				<0.01	<0.01	<0.01	<0.01		Crude/Waste Oil=37	<20	
SB75-96-1-9	9.0			0.09	<0.005	<0.005	chlorobenzene=0.011			<0.01	<0.01	<0.01	<0.01		Crude/Waste Oil=46	<20	
SB75-96-1-14.2	14.2			0.0081	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-1-19.3	19.3			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-1-24.1	24.1			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-1-29	29.0			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-2-4.7	4.7			<0.005	<0.005	<0.005	ethyl benzene=0.0064 total xylenes=0.034			<0.01	<0.01	<0.01	0.01		TPH-Motor Oil=86	<20	
SB75-96-2-9.5	9.5			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-2-15.1	15.1			0.0061	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-2-20	20.0			0.015	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		Hydraulic/Motor Oil=15	32	
SB75-96-3-5.1	5.1			0.055	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-3-10.1	10.1			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-3-15	15.0			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-3-19.5	19.5			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		ND	<20	
SB75-96-4-6	6.0			<0.005	<0.005	<0.005											
SB75-96-4-11	11.0			<0.005	<0.005	<0.005											
SB75-96-4-15.8	15.8			<0.005	<0.005	<0.005											
SB75-96-4-20.8	20.8			<0.005	<0.005	<0.005											
SB75A-96-1-3.8	3.8	Sep-96	BC	<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		Crude/Waste Oil=12	<20	
SB75A-96-1-12.5	12.5			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		Crude/Waste Oil=29	<20	
SB75A-96-1-17.8	17.8			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		Diesel=170	<20	
SB75A-96-1-22.5	22.5			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01		Crude/Waste Oil=19	<20	
SB75A-98-1-1.5	1.5	Apr-98	BC	<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75A-98-1-3.2	3.2			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75A-98-1-5.8	5.8			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75A-98-1-11	11.0			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75A-98-2-1.8	1.8			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75A-98-2-3.2	3.2			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75A-98-2-6	6.0			0.016	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75A-98-2-10.8	10.8			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
SB75AHW-97-1-1.0	1.0	Jul-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	49			<1
SB75AHW-97-1-3.0	3.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-2-1.1	1.1			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-2-2.6	2.6			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-3-1.0	1.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	38			<1
SB75AHW-97-3-2.6	2.6			<0.005	<0.005	<0.005		ND	ND	<0.2	0.97	<0.2	<0.2	460			<1
SB75AHW-97-4-1.0	1.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-4-2.5	2.5			<0.005	<0.005	<0.005		ND	ND	<0.02	<0.02	<0.02	<0.02	20			<1
SB75AHW-97-5-1.0	1.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-5-2.8	2.8			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-6-1.0	1.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-6-2.9	2.9			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-7-1.0	1.0			<0.005	<0.005	<0.005		Di-n-butyl phthalate=1.5	ND	<0.02	<0.02	<0.02	<0.02	200			<1
SB75AHW-97-7-3.0	3.0			<0.005	<0.005	<0.005		Di-n-butyl phthalate=1.7	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-8-1.0	1.0			<0.005	<0.005	<0.005		Butyl benzyl phthalate=0.10 Di-n-butyl phthalate=1.8	ND	<0.2	<0.2	<0.2	<0.2	110			<1
SB75AHW-97-8-3.2	3.2			<0.005	<0.005	<0.005		Butyl benzyl phthalate=0.32 Di-n-butyl phthalate=1.9	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-9-1.3	1.3			<0.005	<0.005	<0.005		ND	ND	<0.02	<0.02	<0.02	<0.02	40			<1
SB75AHW-97-9-3.0	3.0			0.013	<0.005	<0.005		ND	ND	<0.05	<0.05	<0.05	<0.05	<20			<1
SB75AHW-97-9-4.7	4.7	Sep-97	BC	0.021	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1

Table C3.1-1

Soil Sampling Results (mg/kg)

SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility

Concentrations of Organic Constituents and Cyanide

COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons, Cyanide

				VOCs				SVOCs	Pesticides & PCBs	PCBs				Crude/ Waste Oil	TPH-Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected			Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254				
			PRG	43	5.7	2.8				0.22	0.22	0.22	0.22				11
Sample ID	Depth (ft)	Date	Lab														
SB75AHW-97-10-1.0	1.0	Jul-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-10-3.0	3.0			<0.005	<0.005	<0.005		ND	ND	<0.2	<0.2	<0.2	<0.2	180			<1
SB75AHW-97-11-1.0	1.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-11-2.5	2.5			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-12-1.0	1.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75AHW-97-12-2.8	2.8			<0.005	<0.005	<0.005		ND	ND	<0.06	0.40	<0.06	<0.06	120			<1
SB75AHW-97-12-3.2	3.2	Sep-97	BC	<0.005	<0.005	<0.005		Phenanthrene=0.20	ND	<2	15	<2	<2	400			<1
SB75AHW-97-13-1.0	1.0	Mar-98	BC	<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<0.50
SB75AHW-97-13-2.8	2.8			<0.005	<0.005	<0.005		ND	ND	<0.05	<0.05	<0.05	<0.05	43			<0.50
SB75AHW-97-14-1.1	1.1			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<0.49
SB75AHW-97-14-3	3.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<0.49
SB75AHW-97-15-1.2	1.2			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<0.47
SB75AHW-97-15-3.2	3.2			<0.005	<0.005	<0.005	Methylene chloride=0.012	ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<0.50
SB75EHW-97-1-1	1.0	Aug-97	BC	<0.005	0.0058	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75EHW-97-1-3.5	3.5			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75EHW-97-1-4.3	4.3	Sep-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75EHW-97-2-1.1	1.1	Aug-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75EHW-97-2-3.5	3.5			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75EHW-97-2-5	5.0			<0.005	<0.005	<0.005		ND	ND	<0.01	0.045	<0.01	<0.01	<20			<1
SB75EHW-97-3-1.1	1.1			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75EHW-97-3-2.8	2.8			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75FLHW-97-1-0.5	0.5	Aug-97	BC	<0.005	<0.005	<0.005		Benzyl alcohol=0.26 Bis(2-ethylhexyl) phthalate=0.34	ND	<0.2	<0.2	<0.2	<0.2	27			<1
SB75FLHW-97-1-3.8	3.8			<0.005	<0.005	<0.005		Benzyl alcohol=0.21	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75FLHW-97-2-0.5	0.5			<0.005	<0.005	<0.005		ND	ND	<0.4	<0.4	<0.4	<0.4	Kerosene=350			<1
SB75FLHW-97-2-3	3.0			<0.005	<0.005	<0.005		Benzyl alcohol=0.11	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75FLHW-97-3-0.5	0.5			<0.005	<0.005	<0.005		Benzyl alcohol=0.22	ND	<0.2	<0.2	<0.2	<0.2	36			<1
SB75FLHW-97-3-3.2	3.2			<0.005	<0.005	<0.005		Benzyl alcohol=0.19	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75FLHW-97-4-0.5	0.5			<0.005	<0.005	<0.005		Benzyl alcohol=0.32	ND	<0.05	<0.05	0.17	<0.05	100			<1
SB75FLHW-97-4-2.6	2.6			<0.005	<0.005	<0.005		Benzyl alcohol=0.18	ND	<0.02	<0.02	0.067	<0.02	28			<1
SB75JHW-97-1-1.8	1.8	Aug-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.5	<0.5	3.4	<0.5	650			<1
SB75JHW-97-2-1.3	1.3	Sep-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.2	<0.2	<0.2	0.68	57			<1
SB75J-97-3	3.0	Oct-97	BC							<3.0	<3.0	19	<3.0				
SB75J-97-3	5.0									<0.5	<0.5	3.1	<0.5				
SB75J-97-3	7.3									<0.1	<0.1	0.64	<0.1				
SB75LYHW-97-1-0.8	0.8	Aug-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75LYHW-97-1-2.8	2.8			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75LYHW-97-2-1.2	1.2			<0.005	0.025	<0.005		ND	ND	<0.01	<0.01	0.036	<0.01	<20			<1
SB75LYHW-97-2-3.7	3.7			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75LYHW-97-3-1	1.0			<0.005	<0.005	<0.005		ND	ND	<0.02	<0.02	<0.02	<0.02	<20			<1
SB75LYHW-97-3-2.5	2.5			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75LYHW-97-4-1.2	1.2			<0.005	<0.005	<0.005	1,1-DCE=0.0063 1,1,1-TCA=0.015	ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75LYHW-97-4-2	2.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75LYHW-97-5-1	1.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	27			<1
SB75LYHW-97-5-2.7	2.7			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	39			<1
SB75LYHW-97-6-0.7	0.7			<0.005	<0.005	<0.005		Benzyl alcohol=0.19	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75LYHW-97-6-2.8	2.8			<0.005	<0.005	<0.005		Benzyl alcohol=0.26	ND	<0.01	<0.01	<0.01	<0.01	<20			<1

Table C3.1-1
Soil Sampling Results (mg/kg)
SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons, Cyanide

				VOCs				SVOCs	Pesticides & PCBs	PCBs				Crude/ Waste Oil	TPH-Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected			Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254				
			PRG	43	5.7	2.8				0.22	0.22	0.22	0.22				11
Sample ID	Depth (ft)	Date	Lab														
SB75Y-97-1	3.2	Oct-97	BC							<0.01	<0.01	<0.01	<0.01				
SB75Y-97-1	6.7									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-2A	4.5									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-2A	7.5									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-3A	4.5									<0.01	<0.01	0.051	<0.01				
SB75Y-97-3A	7.5									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-4	4.9									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-4	7.5									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-5	6.3									<0.05	<0.05	0.28	<0.05				
SB75Y-97-5	7.5									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-9	1.0									<0.05	<0.05	0.27	<0.05				
SB75Y-97-9	3.0									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-9	7.5									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-10	2.2									<0.01	<0.01	<0.01	<0.01				
SB75Y-97-10	4.5									<0.01	<0.01	0.049	<0.01				
SB75Y-97-10	8.0									<0.01	<0.01	<0.01	<0.01				
SB75YHW-97-1-0.5	0.5	Aug-97	BC	<0.005	<0.005	<0.005		ND	ND	<0.2	<0.2	0.20	<0.2	<20			<1
SB75YHW-97-1-3.2	3.2			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YHW-97-2-0.8	0.8			<0.005	<0.005	<0.005		ND	ND	<5	<5	48	<5	67			<1
SB75YHW-97-2-3	3.0			<0.005	<0.005	<0.005		ND	ND	<0.02	<0.02	0.15	<0.02	67			<1
SB75YHW-97-3-0.8	0.8			<0.005	<0.005	<0.005		ND	ND	<0.5	<0.5	2.8	<0.5	37			<1
SB75YHW-97-3-3	3.0			<0.005	<0.005	<0.005		ND	ND	<0.05	<0.05	<0.05	<0.05	180			<1
SB75YHW-97-4-0.7	0.7			<0.005	<0.005	<0.005		ND	ND	<0.1	<0.1	0.60	<0.1	<20			<1
SB75YHW-97-4-2.8	2.8			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	0.058	<0.01	<20			<1
SB75YHW-97-5-0.8	0.8			<0.005	<0.005	<0.005		ND	ND	<0.5	<0.5	2.1	<0.5	65			<1
SB75YHW-97-5-3	3.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	0.021	<0.01	<20			<1
SB75YHW-97-6-2	2.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	0.018	<0.01	<20			<1
SB75YHW-97-6-3.2	3.2			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YHW-97-7-1.2	1.2			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YHW-97-7-3	3.0			<0.005	<0.005	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YHW-97-8-1.3	1.3			<0.005	0.028	<0.005		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YHW-97-8-3.5	3.5			<0.005	0.14	0.011		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YHW-97-8-4.3	4.3	Sep-97	BC	<0.005	0.072	0.0054		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YHW-97-8-5.4	5.4			<0.005	0.31	0.0069		ND	ND	<0.01	<0.01	<0.01	<0.01	<20			<1
SB75YSWR-97-1-2.6	2.6	Oct-97	BC	<0.005	0.0070	<0.005											<1.0
SB75YSWR-97-1-3.6	3.6			<0.005	0.019	<0.005											<1.0
SB75YSWR-97-2-2.5	2.5			<0.005	0.040	<0.005											<1.0
SB75YSWR-97-2-3.5	3.5			<0.005	0.069	0.026											<1.0
SB75A-97-3	7.5	Oct-97	BC							<0.01	<0.01	<0.01	<0.01				
SB75A-97-12	4.2									<0.01	<0.01	0.036	<0.01				
SB75A-99-1	1.0	Aug-99	BC							<0.01	<0.01	<0.01	<0.01				
SB75A-99-1	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-1	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-1	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-2	0.8									<0.01	<0.01	<0.01	<0.01				
SB75A-99-2	4.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-2	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-2	13.3									<0.01	<0.01	<0.01	<0.01				
SB75A-99-3	0.8									<0.01	<0.01	<0.01	<0.01				
SB75A-99-3	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-3	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-3	15.0									<0.01	<0.01	<0.01	<0.01				

Table C3.1-1
Soil Sampling Results (mg/kg)
SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons, Cyanide

				VOCs				SVOCs	Pesticides & PCBs	PCBs				Crude/ Waste Oil	TPH-Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected			Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254				
			PRG	43	5.7	2.8				0.22	0.22	0.22	0.22				11
Sample ID	Depth (ft)	Date	Lab														
SB75A-99-4	0.8	Aug-99	BC							<0.01	<0.01	<0.01	<0.01				
SB75A-99-4	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-4	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-4	14.9									<0.01	<0.01	<0.01	<0.01				
SB75A-99-5	0.8									<0.01	<0.01	<0.01	<0.01				
SB75A-99-5	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-5	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-5	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-6	0.7									<0.01	<0.01	<0.01	<0.01				
SB75A-99-6	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-6	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-6	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-7	0.7									<0.01	<0.01	<0.01	<0.01				
SB75A-99-7	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-7	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-7	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-8	1.0									<0.01	0.14	<0.01	<0.01				
SB75A-99-8	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-8	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-8	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-9	2.2									<0.01	0.023	<0.01	<0.01				
SB75A-99-9	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-9	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-9	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-10	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-10	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-10	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-10	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-11	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-11	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-11	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-11	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-12	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-12	5.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-12	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-12	14.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-13	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-13	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-13	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-13	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-14	1.5									<0.01	0.024	<0.01	<0.01				
SB75A-99-14	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-14	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-14	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-15	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-15	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-15	6.8									<0.05	0.29	<0.05	<0.05				
SB75A-99-16	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-16	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-16	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-16	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-17	1.5									<0.2	2.8	<0.2	<0.2				

Table C3.1-1
Soil Sampling Results (mg/kg)
SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons, Cyanide

				VOCs				SVOCs	Pesticides & PCBs	PCBs				Crude/ Waste Oil	TPH-Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected			Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254				
			PRG	43	5.7	2.8				0.22	0.22	0.22	0.22				11
Sample ID	Depth (ft)	Date	Lab														
SB75A-99-17	5.0	Aug-99	BC							<0.2	0.37	<0.2	<0.2				
SB75A-99-17	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-17	14.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-18	1.5									<0.2	1.8	<0.2	<0.2				
SB75A-99-18	5.0									<0.05	0.074	<0.05	<0.05				
SB75A-99-18	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-18	13.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-19	1.5									1.1	<0.2	<0.2	<0.2				
SB75A-99-19	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-19	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-19	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-20	2.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-20	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-20	9.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-21	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-21	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-21	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-21	14.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-22	1.5									<0.01	0.013	<0.01	<0.01				
SB75A-99-22	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-22	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-22	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-23	2.0									<0.01	0.028	<0.01	<0.01				
SB75A-99-23	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-23	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-23	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-24	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-24	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-24	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-24	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-25	1.5									<0.05	0.75	<0.05	<0.05				
SB75A-99-25	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-25	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-25	15.1									<0.01	<0.01	<0.01	<0.01				
SB75A-99-26	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-26	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-26	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-26	13.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-27A	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-27A	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-27A	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-28	3.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-28	6.3									<0.01	<0.01	<0.01	<0.01				
SB75A-99-29	1.5									<0.05	0.078	<0.05	<0.05				
SB75A-99-29	5.0									<1	17	<1	<1				
SB75A-99-29	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-29	14.8									<0.01	<0.01	<0.01	<0.01				
SB75A-99-30	1.5									<1	4.7	<1	<1				
SB75A-99-30	5.0									<0.02	0.053	<0.02	<0.02				
SB75A-99-30	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-30	14.6									<0.01	<0.01	<0.01	<0.01				
SB75A-99-31	2.0									<0.1	0.52	<0.1	<0.1				

Table C3.1-1

Soil Sampling Results (mg/kg)

SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility

Concentrations of Organic Constituents and Cyanide

COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons, Cyanide

				VOCs				SVOCs	Pesticides & PCBs	PCBs				Crude/ Waste Oil	TPH-Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected			Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254				
			PRG	43	5.7	2.8				0.22	0.22	0.22	0.22				11
Sample ID	Depth (ft)	Date	Lab														
SB75A-99-31	5.0	Aug-99	BC							<0.01	0.013	<0.01	<0.01				
SB75A-99-31	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-32	3.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-32	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-32	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-32	14.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-33	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-33	4.7									<0.01	<0.01	<0.01	<0.01				
SB75A-99-33	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-33	12.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-34	1.5									<1	3.9	<1	<1				
SB75A-99-35	5.0									<1	5.2	<1	<1				
SB75A-99-35	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-35	12.1									<0.01	0.067	<0.01	<0.01				
SB75A-99-36	2.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-36	4.8									<0.01	<0.01	<0.01	<0.01				
SB75A-99-36	9.3									<0.01	<0.01	<0.01	<0.01				
SB75A-99-36	12.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-37	1.5									<0.01	<0.01	<0.01	<0.01				
SB75A-99-37B	6.3									<0.01	<0.01	<0.01	<0.01				
SB75A-99-37B	10.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-37B	15.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-38	1.5	Nov-99	BC							<0.01	<0.01	<0.01	<0.01				
SB75A-99-38	5.0									<0.01	<0.01	<0.01	<0.01				
SB75A-99-38	9.4									<0.01	<0.01	<0.01	<0.01				
SB75A-99-38	13.8									<0.01	<0.01	<0.01	<0.01				
SB75A-99-38Comp				0.0067	<0.005	<0.005											
MW75-96-20-5.2	5.2	Oct-96	CLS	0.42	0.019	0.0077	acetone=0.27 chlorobenzene=0.03 trans-1,2-DCE=0.008 p-isopropyltoluene=0.013 1,2,4-trimethylbenzene=0.14 1,3,5-trimethylbenzene=0.04 toluene=0.0062 xylenes=0.048										
MW75-96-20-11	11.0	Feb-97	BC	<0.005	<0.005	<0.005											
MW75-96-20-20.5	20.5			<0.005	<0.005	<0.005											
MW75-96-20-30.5	30.5			<0.005	<0.005	<0.005											
MW75-96-20-40.2	40.5			<0.005	<0.005	<0.005											
MW75-96-20-50.8	50.8			<0.005	<0.005	<0.005											
MW75-98-14-5.7	5.7	Sep-98	BC	<0.005	<0.005	<0.005											
MW75-98-14-10.2	10.2			<0.005	<0.005	<0.005											
MW75-98-14-14.1	14.1			<0.005	<0.005	<0.005											
MW75-98-14-19.3	19.3			<0.005	<0.005	<0.005											
MW75-98-14-24.2	24.2			<0.005	<0.005	<0.005											
MW75-98-14-29.2	29.2			<0.005	<0.005	<0.005											
MW75-98-14-34.2	34.2			<0.005	<0.005	<0.005											
MW75-98-15-9.5	9.5			<0.005	<0.005	<0.005											
MW75-98-15-18.5	18.5			<0.005	<0.005	<0.005											
MW75-98-15-28.6	28.6			<0.005	<0.005	<0.005											
MW75-99-4-3.0	3.0	Jul-99	BC	<0.005	<0.005	<0.005	Methylene chloride=0.017			<0.01	<0.01	<0.01	<0.01				
MW75-99-4-4.5	4.5			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				

Table C3.1-1
Soil Sampling Results (mg/kg)
SWMU 3-6: Building 75 Former Hazardous Waste Handling and Storage Facility
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons, Cyanide

				VOCs				SVOCs	Pesticides & PCBs	PCBs				Crude/ Waste Oil	TPH-Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	PCE	TCE	Other Compounds Detected			Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254				
			PRG	43	5.7	2.8				0.22	0.22	0.22	0.22				11
Sample ID	Depth (ft)	Date	Lab														
MW75-99-4-6.5	6.5	Jul-99	BC	<0.005	0.009	<0.005				<0.01	<0.01	<0.01	<0.01				
MW75-99-4-9.2	9.2			<0.005	0.019	<0.005				<0.01	<0.01	<0.01	<0.01				
MW75-99-4-13.5	13.5			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
MW75-99-4-17.0	17.0			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
MW75-99-4-18.8	18.8			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
MW75-99-4-28.5	28.5			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
MW75-99-4-33.7	33.7			<0.005	<0.005	<0.005				<0.01	<0.01	<0.01	<0.01				
MW75-99-6	10.1	Nov-99	BC							<0.01	<0.01	<0.01	<0.01				
MW75-99-6	13.7									<0.01	<0.01	<0.01	<0.01				
MW75-99-6	18.9									<0.01	<0.01	<0.01	<0.01				
MW75-99-6	23.9									<0.01	<0.01	<0.01	<0.01				
MW75-99-6Comp				<0.005	<0.005	<0.005											
MW75-99-7	19.3	Nov-99	BC							<0.01	<0.01	<0.01	<0.01				
MW75-99-7	23.9									<0.01	<0.01	<0.01	<0.01				
MW75-99-7Comp				<0.005	<0.005	<0.005											
MW75-99-8	8.3	Dec-99	BC							<0.01	<0.01	<0.01	<0.01				
MW75-99-8	10.5									<0.01	<0.01	<0.01	<0.01				
MW75-99-8	15.6									<0.01	<0.01	<0.01	<0.01				
MW75-99-8	20.6									<0.01	<0.01	<0.01	<0.01				
MW75-99-8	25.7									<0.01	<0.01	<0.01	<0.01				
MW75-99-8	28.1									<0.01	<0.01	<0.01	<0.01				
MW75-99-8Comp				<0.005	<0.005	<0.005											
MW91-4-S1	5.0	Nov-91	Q	<0.005	<0.005	<0.005											
MW91-4-S2	10.0			<0.005	<0.005	<0.005											
MW91-4-S3	18.5			<0.005	<0.005	<0.005											
MW91-4-S4	23.5			<0.005	<0.005	<0.005											
MW91-4-S5	34.5			<0.005	<0.005	<0.005											
MW91-4-S6	44.5			<0.005	<0.005	<0.005											
MW91-4-S7	54.5			<0.005	<0.005	<0.005											

= Not analyzed
< = Not detected above reporting limit (reporting limit shown)
ND = Not detected above reporting limit (reporting limit varies with analyte)

BC = Analysis by BC Laboratories
CLS = Analysis by California Laboratory Services
Q = Analysis by Quanteq Laboratories

VOCs analyzed by EPA Method 8010, 8020, or 8260
SVOCs analyzed by EPA Method 8270
PCBs analyzed by EPA Method 8080
Fuel Identification analyzed by EPA Method 8015M included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40
Oil & Grease analyzed by EPA Method 413.1
Cyanide analyzed by EPA Method 9012

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

1,1,1-TCA=770
1,1-DCE=540
1,2,4-trimethylbenzene=5.7
1,3,5-trimethylbenzene=21
Acetone=1600
Benzyl alcohol=18,000
Bis(2-ethylhexyl phthalate=35
Butyl benzyl phthalate=12,000
Chlorobenzene=150
Di-n-butyl phthalate=6,100
Ethylbenzene=230
Methylene chloride=8.9
Toluene=520
trans-1,2-DCE=63
xylenes=210

COPCs = Chemicals of Potential Concern
Concentrations shown in bold are above PRGs for residential soil.

Table C3.2-1
Soil Sampling Results (mg/kg)
SWMU 4-3: Building 76 Motor Pool Collection Trenches
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, Fuel Hydrocarbons

				Aromatic VOCs					Non-Aromatic VOCs	PAH	Fuels	TPH-D	TPH-G	Oil & Grease	pH
				Benzene	Toluene	Ethylbenzene	Xylenes	Other Aromatics Detected							
			PRG	0.67	520	230	210								
Sample ID	Depth (ft)	Date	Lab												
SS76S-12-10'	10	RFA		ND	ND	0.009	0.016		1,1,1-TCA=0.039		THC=1,515				
SS76S-13-10'	10	RFA		1.283	3.234	0.607	2.519	isopropylbenzene=0.034	ND		THC=16,010				
SS76-94-01-6	6	Jun-94	BC	<0.005	<0.005	<0.005	<0.01		ND			<20	<1	17,000	
SS76-94-01-11	11			<0.005	<0.005	<0.005	<0.01		ND			<10	<1	140	
SS76-94-01-18	18			<0.005	<0.005	<0.005	<0.01		ND			<10	<1	54	
SS76-94-01-21	21			<0.005	<0.005	<0.005	<0.01		ND			<10	<1	98	
SS76-94-02-6	6			<0.005	<0.005	<0.005	<0.01		ND			<10	<1	270	
SS76-94-02-15.5	15.5											<10	<1	90	
SS76-94-02-16	16			<0.005	<0.005	<0.005	<0.01		Freon-12=0.0064 Freon-113=0.007						
SS76-94-02-20.5	20.5			<0.005	<0.005	<0.005	<0.01		Freon-12=0.016			<10	<1	92	
SS76-94-03-5	5			<0.005	<0.005	<0.005	<0.01		ND			<10	<1	<20	
SS76-94-03-10	10			<0.005	<0.005	<0.005	<0.01		ND			<10	<1	<20	
SS76-94-03-15.5	15.5			<0.005	<0.005	<0.005	<0.01		ND						
SS76-94-03-16	16											<10	<1	<20	
SS76-94-03-20.5	20.5			<0.005	<0.005	<0.005	<0.01		ND						
SS76-94-03-21	21											<10	<1	<20	
SB76-95-1-3.1	3.1	Jun-95	BC											<20	
SB76-95-1-7	7													26	
SB76-95-1-11	11			<0.005	<0.005	<0.005	<0.01		PCE=0.020		Diesel=11			<20	7.68
SB76-95-1-16.5	16.5													<20	
SB76-95-1-21	21			<0.005	<0.005	<0.005	<0.01		T RCE=0.0072		Diesel=10			<20	8.75
SB76-95-1-25	25													70	
SB76-95-2-3.7	3.7													98	
SB76-95-2-4.7	4.7													<20	
SB76-95-2-10.4	10.4			<0.005	<0.005	<0.005	<0.01		ND		ND			32	7.76
SB76-95-2-15.7	15.7													46	
SB76-95-2-20.7	20.7			<0.005	<0.005	<0.005	<0.01		ND		ND			34	8.34
SB76-95-2-25.2	25.2													56	
SB76-95-3-3	3													190	
SB76-95-3-5.3	5.3													30	
SB76-95-3-8.3	8.3													600	
SB76-95-3-10.5	10.5			0.54	<0.005	1.0	1.1	sec-butylbenzene=0.14 isopropylbenzene=0.26 p-isopropyltoluene=0.37 naphthalene=0.83 n-propylbenzene=0.77 1,2,4-trimethylbenzene=0.56 1,3,5-trimethylbenzene=1.3	ND		Diesel=830			490	8.23
SB76-95-3-15.5	15.5													170	
SB76-95-3-20.7	20.7			<0.005	<0.005	<0.005	<0.01		ND		Diesel=11			44	8.37

Table C3.2-1
Soil Sampling Results (mg/kg)
SWMU 4-3: Building 76 Motor Pool Collection Trenches
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, Fuel Hydrocarbons

				Aromatic VOCs					Non-Aromatic VOCs	PAH	Fuels	TPH-D	TPH-G	Oil & Grease	pH
				Benzene	Toluene	Ethylbenzene	Xylenes	Other Aromatics Detected							
			PRG	0.67	520	230	210								
Sample ID	Depth (ft)	Date	Lab												
SB76-95-3-26	26	Jun-95	BC											190	
SB76-95-4-3	3													940	
SB76-95-4-7.3	7.3													68	
SB76-95-4-10.3	10.3			<0.005	<0.005	<0.005	<0.01		ND		ND			42	7.47
SB76-95-4-15.6	15.6													<20	
SB76-95-4-21	21			<0.005	<0.005	<0.005	<0.01		ND		Diesel=10			<20	8.66
SB76-95-5-3	3													2000	
SB76-95-5-6.9	6.9													<20	
SB76-96-1-2.5	2.5	Oct-96	CLS	<0.005	<0.005	<0.005	<0.005	NA		ND	Motor Oil=6.9	11	<1.0		
SB76-96-1A-2	2			<0.005	<0.005	<0.005	<0.005	NA		ND	Motor Oil=21	<4.0	<1.0		
SB76-96-1A-5.5	5.5			<0.005	<0.005	<0.005	<0.006	NA		ND	Motor Oil=25	<4.0	<1.0		
SB76-97-1-0.0		Feb-97	BC	<0.05	<0.05	<0.05	<0.1		ND	anthracene=0.023 fluoranthene=0.27 phenanthrene=0.24		450	<1		
SB76-97-1-3.5	3.5			<0.005	<0.005	0.11	0.029	naphthalene=0.94 n-butylbenzene=0.18 sec-butylbenzene=0.056 isopropylbenzene=0.051 n-propylbenzene=0.16 p-isopropyltoluene=0.053 1,2,4-trimethylbenzene=0.08 1,3,5-trimethylbenzene=0.12	ND	anthracene=0.12 fluoranthene=1.5 phenanthrene=1.5		4000	61		
SB76-97-1-7.5	7.5			<0.005	<0.005	<0.005	<0.01	naphthalene=0.0052 1,2,4-trimethylbenzene=0.011	ND	acenaphthylene=0.11 chrysene=0.030 phenanthrene=0.014		15	1.3		
SB76-97-1-11.5	11.5								ND	ND		<1	<1		

	= Not analyzed
<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)

BC = Analysis by BC Laboratories
CLS = Analysis by California Laboratory Services

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

1,1,1-TCA=770	fluoranthene=2300	naphthalene=56
1,2,4-trimethylbenzene=5.7	Freon-113=5600	PCE=5700
1,3,5-trimethylbenzene=21	Freon-12=94	sec-butylbenzene=110
anthracene=22,000	isopropylbenzene=160	
chrysene=62	n-propylbenzene=140	

VOCs analyzed by EPA Method 8240, 8020, or 8260
PAHs analyzed by EPA Method 8310
Fuel Identification analyzed by EPA Method 8015M included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/ Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40
TPH-Diesel and Gasoline analyzed by EPA Method 8015M
Oil & Grease analyzed by EPA Method 413.1
pH analyzed by EPA Method 9040
COPCs = Chemicals of Potential Concern

Table C3.3-1
Soil Sampling Results (mg/kg)
SWMU 5-4: Building 77 Plating Shop Floor and Sump
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, Fuel Hydrocarbons, Cyanide

				VOCs		SVOCs	TPH-Diesel	TPH-Gasoline	Cyanide	pH
				PCE	Other Compounds Detected					
			PRG	5.7						
Sample ID	**Depth (ft)**	**Date**	**Lab**							
BS77Plate-94-01-1.5	1.5	Jun-94	BC						<1	8.65
BS77Plate-94-01-2	2			0.50	TCE=0.013		<10	<1		
BS77Plate-94-01-6.5	6.5			0.041			<10	<1	<1	
BS77Plate-94-01-10.5	10.5			<0.005			<10	<1	<1	
BS77Plate-94-02-1	1			0.015			<10	<1	<1	8.66
BS77Plate-94-02-3	3			0.12	1,1-DCA=0.0053 1,1,1-TCA=0.035		<10	<1	<1	
BS77Plate-94-02-6	6			0.12			<10	<1	<1	
BS77Plate-94-02-8	8			0.036			<10	<1	<1	
BS77Plate-94-03-1	1			0.040			<10	<1	<1	8.49
BS77Plate-94-03-3	3			0.036			<10	<1	<1	
BS77Plate-94-03-6	6			0.067			<10	<1	<1	
BS77Plate-94-03-8	8			0.11	TCE=0.013		<10	<1	<1	
BS77Plate-94-04-1	1			<0.005			<10	<1	<1	8.07
BS77Plate-94-04-3	3			0.013			<10	<1	<1	
BS77Plate-94-04-6	6			0.012			<10	<1	<1	
BS77Plate-94-04-8	8			0.015			<10	<1	<1	
BS77Plate-94-05-1	1			0.051			<10	<1	<1	7.96
BS77Plate-94-05-3	3			0.016			<10	<1	<1	
BS77Plate-94-05-6	6			0.063			<10	<1	<1	
BS77Plate-94-05-9	8			0.041			<10	<1	<1	
SS-77PlExc-98-1-1.8	1.8	Dec-98	BC	<0.005	Methylene chloride=0.012 Styrene=0.0092	Dimethyl phthalate=0.11			<0.5	

Table C3.3-1
Soil Sampling Results (mg/kg)
SWMU 5-4: Building 77 Plating Shop Floor and Sump
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, Fuel Hydrocarbons, Cyanide

				VOCs		SVOCs	TPH-Diesel	TPH-Gasoline	Cyanide	pH
				PCE	Other Compounds Detected					
			PRG	5.7						
Sample ID	**Depth (ft)**	**Date**	**Lab**							
SS-77PIExc-98-2-2	2	Dec-98	BC	0.020	Benzene=0.039 Ethyl Benzene=0.0060	ND			<0.5	
SS-77-99-1-1.7	1.7	Dec-99	BC	<0.005						
SS-77-99-3-1.7	1.7			<0.005						
SS-77-99-4-1.6	1.6			<0.005						
SS-77-99-5-1.7	1.7			<0.005						
SS-77-00-2-1.4	1.4	Apr-00	BC	<0.005					<0.5	
SS-77-00-3-1.5	1.5			0.012					<0.5	
SS-77-00-4-1.5	1.5			<0.005					<0.5	
SS-77-00-5-1.3	1.3			0.0091					<0.5	
SS-77-00-6-1.5	1.5			0.042					<0.5	
SS-77-00-7-1.8	1.8			0.023						
SS-77-00-8-1.8	1.8			<0.005						
SS-77-00-9-1.9	1.9			<0.005						
SS-77-00-11-1.4	1.4			<0.005					<0.5	
SS-77-00-10-1.5	1.5			<0.005	p-isopropyltoluene=0.0056					

	= Not analyzed
<	= Not detected above reporting limit (reporting limit shown)

BC = Analysis by BC Laboratories
COPCs = Chemicals of Potential Concern

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

1,1,1-TCA=770	Ethylbenzene=230
1,1-DCA=590	Methylene chloride=8.9
Benzene=0.67	Styrene=1700
Dimethyl phthalate=100,000	TCE=2.8

VOCs analyzed by EPA Method 8260
SVOCs analyzed by EPA Method 8270
TPH-Diesel and Gasoline analyzed by EPA Method 8015M
Cyanide analyzed by EPA Method 9012
pH analyzed by EPA Method 9040

Table C3.4-1
Soil Sampling Results (mg/kg)
AOC 4-1, 4-2: Building 76 Former Diesel and Gasoline USTs
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, Fuel Hydrocarbons

				Aromatic VOCs					Non-Aromatic VOCs	Fuel Identification	TPH-Diesel	TPH-Gas	PAH	Oil & Grease	pH
				Benzene	Toluene	Ethylbenzene	Xylenes	Other Aromatics Detected							
			PRG	0.67	520	230	210								
Sample ID	Depth (ft)	Date	Lab												
SS76S-12-10'	10	RFA		ND	ND	0.009	0.016		1,1,1-TCA=0.039		THC=1.515				
SS76S-13-10'	10	RFA		1.283	3.234	0.607	2.519	isopropylbenzene=0.034	ND		THC=16.010				
SW-1	4	Nov-90	S	0.016	0.026	0.006	0.03				3.7	<1			
T2-W1	14			0.006	0.008	<0.005	0.007					<1			
T2-E1	14			0.008	0.015	<0.005	0.018					<1			
T3-W1	14			0.22	0.03	<0.010	0.042				15	5.3			
T3-E1	14			0.038	0.053	<0.013	0.057				7.3	1.7			
T3-S2	14.5	Nov-90	AE	ND	ND	ND	ND				ND	ND			
T3-SW	10.5			ND	ND	ND	ND				4,500	ND			
BS76-92-25-5.5	5.5	Sep-92	C	<0.005	<0.005	<0.005	<0.005		ND		<1	<1			
BS76-92-25-16	16			<0.005	<0.005	<0.005	<0.005		ND						
BS76-92-25-26	26			<0.005	<0.005	<0.005	<0.005		Chloroform=0.026						
BS76-92-25-36	36			<0.005	<0.005	<0.005	<0.005		Chloroform=0.047						
BS76-93-7-5.5	5.5	Aug-93	C	<0.005	<0.005	<0.005	<0.005		ND		<1	<1		<50	
BS76-93-7-15.5	15.5			<0.005	<0.005	<0.005	<0.005		ND		<1	<1		<50	
BS76-93-7-26	26			<0.005	<0.005	<0.005	<0.005		ND		<1	<1		<50	
BS76-93-7-35.5	35.5			<0.005	<0.005	<0.005	<0.005		ND		<1	<1		<50	
SS76-94-01-6	6	Jun-94	BC	<0.005	<0.005	<0.005	<0.01		ND		<20	<1		17,000	
SS76-94-01-11	11			<0.005	<0.005	<0.005	<0.01		ND		<10	<1		140	
SS76-94-01-18	18			<0.005	<0.005	<0.005	<0.01		ND		<10	<1		54	
SS76-94-01-21	21			<0.005	<0.005	<0.005	<0.01		ND		<10	<1		98	
SS76-94-02-6	6			<0.005	<0.005	<0.005	<0.01		ND		<10	<1		270	
SS76-94-02-15.5	15.5										<10	<1		90	
SS76-94-02-16	16			<0.005	<0.005	<0.01	<0.005		Freon-12=0.0064 Freon-113=0.007						
SS76-94-02-20.5	20.5			<0.005	<0.005	<0.005	<0.01		Freon-12=0.016		<10	<1		92	
SS76-94-03-5	5			<0.005	<0.005	<0.005	<0.01		ND		<10	<1		<20	
SS76-94-03-10	10			<0.005	<0.005	<0.005	<0.01		ND		<10	<1		<20	
SS76-94-03-15.5	15.5			<0.005	<0.005	<0.005	<0.01		ND						
SS76-94-03-16	16										<10	<1		<20	
SS76-94-03-20.5	20.5			<0.005	<0.005	<0.005	<0.01		ND						
SS76-94-03-21	21										<10	<1		<20	
BS-SB-76-95-1-3.1	3.1	Jun-95	BC											<20	
BS-SB-76-95-1-7	7													26	
BS-SB-76-95-1-11	11			<0.005	<0.005	<0.005	<0.01		PCE=0.020	Diesel=11				<20	7.68
BS-SB-76-95-1-16.5	16.5													<20	
BS-SB-76-95-1-21	21			<0.005	<0.005	<0.005	<0.01		PCE=0.0072	Diesel=10				<20	8.75
BS-SB-76-95-1-25	25													70	
BS-SB-76-95-2-3.7	3.7													98	
BS-SB-76-95-2-4.7	4.7													<20	
BS-SB-76-95-2-10.4	10.4			<0.005	<0.005	<0.005	<0.01		ND	ND				32	7.76
BS-SB-76-95-2-15.7	15.7													46	
BS-SB-76-95-2-20.7	20.7			<0.005	<0.005	<0.005	<0.01		ND	ND				34	8.34
BS-SB-76-95-2-25.2	25.2													56	

Table C3.4-1
Soil Sampling Results (mg/kg)
AOC 4-1, 4-2: Building 76 Former Diesel and Gasoline USTs
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, Fuel Hydrocarbons

				Aromatic VOCs					Non-Aromatic VOCs	Fuel Identification	TPH-Diesel	TPH-Gas	PAH	Oil & Grease	pH
				Benzene	Toluene	Ethylbenzene	Xylenes	Other Aromatics Detected							
			PRG	0.67	520	230	210								
Sample ID	Depth (ft)	Date	Lab												
BS-SB-76-95-3-3	3	Jun-95	BC											190	
BS-SB-76-95-3-5.3	5.3													30	
BS-SB-76-95-3-8.3	8.3													600	
BS-SB-76-95-3-10.5	10.5			0.54	<0.05	1.0	1.1	sec-butylbenzene=0.14 isopropylbenzene=0.26 p-isopropyltoluene=0.37 naphthalene=0.83 n-propylbenzene=0.77 1,2,4-trimethylbenzene=0.56 1,3,5-trimethylbenzene=1.3	ND	Diesel=830				490	8.23
BS-SB-76-95-3-15.5	15.5													170	
BS-SB-76-95-3-20.7	20.7			<0.005	<0.005	<0.005	<0.01		ND	Diesel=11				44	8.37
BS-SB-76-95-3-26	26													190	
BS-SB-76-95-4-3	3													940	
BS-SB-76-95-4-7.3	7.3													68	
BS-SB-76-95-4-10.3	10.3			<0.005	<0.005	<0.005	<0.01		ND	ND				42	7.47
BS-SB-76-95-4-15.6	15.6													<20	
BS-SB-76-95-4-21	21			<0.005	<0.005	<0.005	<0.01		ND	Diesel=10				<20	8.66
BS-SB-76-95-5-3	3													2,000	
BS-SB-76-95-5-6.9	6.9													<20	
BS-W76-97-3-16	16	Feb-97	BC	<0.005	<0.005	<0.005	<0.01		ND		<1	<1	ND		
BS-W76-97-3-21	21			<0.005	<0.005	<0.005	<0.01		ND		1.4	<1	ND		
BS-W76-97-3-26	26			<0.005	<0.005	<0.005	<0.01		ND		1.2	<1	ND		
BS-W76-97-3-31	31			<0.005	<0.005	<0.005	<0.01		ND		1.8	<1	ND		
BS-W76-97-3-36	36			<0.005	<0.005	<0.005	<0.01		ND		<1	<1	ND		
BS-W76-97-4-16	16			<0.005	<0.005	<0.005	<0.01		ND		1.5	<1	ND		
BS-W76-97-4-21	21			<0.005	<0.005	<0.005	<0.01		ND		1.8	<1	ND		
BS-W76-97-4-26	26			<0.005	<0.005	<0.005	<0.01	sec-butylbenzene=0.0059	ND		310	5.6	Anthracene=0.011 Fluoranthene=0.21 Phenanthrene=0.028		
BS-W76-97-4-31	31			<0.005	<0.005	<0.005	<0.01		ND		2.6	<1	ND		
BS-W76-97-4-38.5	38.5			<0.005	<0.005	<0.005	<0.01		ND		3.1	<1	ND		
BS-W76-97-5-16	16			<0.005	<0.005	<0.005	<0.01		ND		<1	<1	Benzo(b)fluoranthene=0.012		
BS-W76-97-5-21	21			<0.005	<0.005	<0.005	<0.01		ND		<1	<1	Benzo(b)fluoranthene=0.0084		
BS-W76-97-5-26	26			<0.005	<0.005	<0.005	<0.01		ND		<1	<1	ND		
BS-W76-97-5-31	31			<0.005	<0.005	<0.005	<0.01		ND		<1	<1	ND		
BS-W76-97-5-35	35			<0.005	<0.005	<0.005	<0.01		ND		<1	<1	ND		
BS-SB76-97-1-0	0	Feb-97	BC	<0.05	<0.05	<0.05	<0.1		ND		450	<1	Anthracene=0.023 Fluoranthene=0.27 Phenanthrene=0.24		

Table C3.4-1
Soil Sampling Results (mg/kg)
AOC 4-1, 4-2: Building 76 Former Diesel and Gasoline USTs
Concentrations of Organic Constituents
COPCs: Halogenated VOCs, Fuel Hydrocarbons

				Aromatic VOCs					Non-Aromatic VOCs	Fuel Identification	TPH-Diesel	TPH-Gas	PAH	Oil & Grease	pH
				Benzene	Toluene	Ethylbenzene	Xylenes	Other Aromatics Detected							
			PRG	0.67	520	230	210								
Sample ID	Depth (ft)	Date	Lab												
BS-SB76-97-1-3.5	3.5	Feb-97	BC	<0.005	<0.005	0.11	0.029	n-butylbenzene=0.18 sec-butylbenzene=0.056 Isopropylbenzene=0.051 p-Isopropyltoluene=0.053 Naphthalene=0.94 n-Propylbenzene=0.16 1,2,4-Trimethylbenzene=0.08 1,3,5-Trimethylbenzene=0.12	ND		4,000	61	Anthracene=0.12 Fluoranthene=1.5 Phenanthrene=1.5		
BS-SB76-97-1-7.5	7.5			<0.005	<0.005	<0.005	<0.01	Naphthalene=0.0052 1,2,4-Trimethylbenzene=0.011	ND		15	1.3	Acenaphthylene=0.11 Chrysene=0.03 Phenanthrene=0.014		
BS-SB76-97-1-11.5	11.5								ND		<1	<1	ND		
BS-SB76-97-2-3.5	3.5			0.33	<0.2	1.6	1.6	n-butylbenzene=0.71 sec-butylbenzene=0.27 Isopropylbenzene=0.26 Naphthalene=3.7 n-Propylbenzene=0.95 1,2,4-Trimethylbenzene=1.8 1,3,5-Trimethylbenzene=1.2	ND		6100	420	Phenanthrene=6.0		
BS-SB76-97-2-7.5	7.5			<0.03	<0.03	<0.03	<0.06	Naphthalene=0.042			280	7.7	Phenanthrene=0.4		
BS-SB76-97-2-11.5	11.5			<0.005	<0.005	<0.005	<0.01		ND		3	<1	Chrysene=0.023		

	= Not analyzed
<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)

BC = Analysis by BC Laboratories
AE = Analysis by American Environmental Laboratories
S = Analysis by Sequoia Analytical

VOCs analyzed by EPA Method 8240 or 8260
Fuel Identification analyzed by EPA Method 8015M included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40
TPH-Diesel and Gasoline analyzed by EPA Method 8015M
PAHs analyzed by EPA Method 8310
Oil & Grease analyzed by EPA Method 413.1
pH analyzed by EPA Method 9040

COPCs = Chemicals of Potential Concern
Concentrations shown in **bold** are above PRGs for residential soil.

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)

1,1,1-TCA=770
1,2,4-trimethylbenzene=5.7
1,3,5-trimethylbenzene=21
anthracene=22,000
benzo(b)fluoranthene=0.62
Chloroform=0.24
chrysene=62
fluoranthene=2300
Freon-113=5600
Freon-12=94
isopropylbenzene=160
n-propylbenzene=140
naphthalene=56
PCE=5700
sec-butylbenzene=110

Table C3.5-1
Soil Sampling Results (mg/kg)
AOC 5-4: Building 77 Sanitary Sewer System
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs					BTEX	Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	1,1-DCA	PCE	TCE	Other Compounds Detected				
			PRG	43	590	5.7	2.8					
Sample ID	Depth (ft)	Date	Lab									
SS77S-19-9.0	9	RFA		ND	ND	ND	ND			ND (THC)		
SS77E-04C-?		RFA		ND	ND	0.014	ND			THC=0.07		
SS77E-3-6.5	6.5	Feb-92	Q	0.011	0.024	0.007	<0.005					
BS79-1-15.5	15.5	Aug-92	C	<0.005	<0.005	<0.005	<0.005					
BS79-2-11.5	11.5			<0.005	<0.005	<0.005	<0.005					
BS79-2-18.5	18.5			<0.005	<0.005	<0.005	<0.005	Chloroform=0.0083				
MW91-1-5	5	May-91	MT	<0.005	<0.005	<0.005	<0.005					<0.4
MW91-1-10	10			<0.005	<0.005	<0.005	<0.005					<0.4
MW91-1-15	15			<0.005	<0.005	<0.005	<0.005					<0.4
MW91-1-20	20			<0.005	<0.005	<0.005	<0.005					<0.4
MW91-1-25	25			<0.005	<0.005	<0.005	<0.005					<0.4
MW91-1-31.5	31.5			<0.005	<0.005	<0.005	<0.005					1.0
MW91-1-35	35			<0.005	<0.005	<0.005	<0.005					<0.4
MW91-1-39.5	39.5			<0.005	<0.005	<0.005	<0.005					<0.4
MW91-2-5	5	May-91	MT	<0.005	<0.005	<0.005	<0.005					
MW91-2-10	10			<0.005	<0.005	<0.005	<0.005					
MW91-2-15	15			<0.005	<0.005	<0.005	<0.005					
MW91-2-20	20			<0.005	<0.005	<0.005	<0.005					
MW91-2-30.5	30.5			<0.005	<0.005	<0.005	<0.005					
MW91-2-35.5	35.5			<0.005	<0.005	<0.005	<0.005					
MW91-2-40.5	40.5			<0.005	<0.005	<0.005	<0.005					
MW91-2-45	45			<0.005	<0.005	<0.005	<0.005					
MW91-2-60.5	60.5			<0.005	<0.005	<0.005	<0.005					
MW77-92-10-5.8	5.8	Mar-92	Q	<0.005	<0.005	0.012	<0.005		ND			
MW77-92-10-10.5	10.5			<0.005	<0.005	<0.005	<0.005		ND			
MW77-92-10-15.3	15.3			<0.005	<0.005	<0.005	<0.005		ND			
MW77-92-10-21	21			<0.005	<0.005	<0.005	<0.005		ND			
MW77-92-10-31	31			<0.005	<0.005	<0.005	<0.005		ND			
MW77-92-10-40.3	40.3			<0.005	<0.005	<0.005	<0.005		ND			
MW77-92-10-50.5	50.5			<0.005	<0.005	<0.005	<0.005		ND			
MW77-92-10-71	71			<0.005	<0.005	<0.005	<0.005		ND			
SB77-94-1-3.8	3.8	Apr-94	BC	0.010	0.068	0.12	0.094			ND	<20	<1.0
SB77-94-1-9.2	9.2			<0.005	<0.005	<0.005	<0.005			ND	<20	<1.0
SB77-94-1-13.7	13.7			<0.005	<0.005	<0.005	<0.005			Crude Oil=150	120	<1.0
SB77-94-2-4	4			<0.005	<0.005	<0.005	<0.005			ND	22	<1.0

Table C3.5-1
Soil Sampling Results (mg/kg)
AOC 5-4: Building 77 Sanitary Sewer System
Concentrations of Organic Constituents and Cyanide
COPCs: Halogenated VOCs, PCBs, Fuel Hydrocarbons

				VOCs					BTEX	Fuel Identification	Oil & Grease	Cyanide
				cis 1,2-DCE	1,1-DCA	PCE	TCE	Other Compounds Detected				
			PRG	43	590	5.7	2.8					
Sample ID	Depth (ft)	Date	Lab									
SB77-94-2-8.7	8.7	Apr-94	BC	<0.005	0.021	<0.005	<0.005			ND	<20	<1.0
SB77-94-2-13.7	13.7			<0.005	<0.005	<0.005	<0.005			ND	<20	<1.0
SB77-94-2-18.9	18.9			<0.005	<0.005	<0.005	<0.005			ND	<20	<1.0
MW77-94-5-4.3	4.3	May-94	BC	<0.005	<0.005	<0.005	<0.005					
MW77-94-5-9.3	9.3			<0.005	<0.005	<0.005	<0.005					
MW77-94-5-14.1	14.1			<0.005	<0.005	<0.005	<0.005					
MW77-94-5-19	19			<0.005	<0.005	<0.005	<0.005					
MW77-94-5-29.5	29.5			<0.005	<0.005	<0.005	<0.005					
MW77-94-5-38.9	38.9			<0.005	<0.005	<0.005	<0.005					
MW77-94-5-48.5	48.5			<0.005	<0.005	<0.005	<0.005					
MW77-94-5-58.5	58.5			<0.005	<0.005	<0.005	<0.005					
MW77-94-6-3.7	3.7	May-94	BC	<0.005	<0.005	<0.005	<0.005					
MW77-94-6-9.3	9.3			<0.005	<0.005	<0.005	<0.005					
MW77-94-6-14.2	14.2			<0.005	<0.005	<0.005	<0.005					
MW77-94-6-24.2	24.2			<0.005	<0.005	<0.005	<0.005					
MW77-94-6-34	34			<0.005	<0.005	<0.005	<0.005					
MW77-94-6-44	44			<0.005	<0.005	<0.005	<0.005					
MW77-94-6-54.5	54.5			<0.005	<0.005	<0.005	<0.005					
MW77-94-6-63.5	63.5			<0.005	<0.005	<0.005	<0.005					
MW77-97-10-4.3	4.3	May-97	BC	<0.005	<0.005	<0.005	<0.005					
MW77-97-10-14.2	14.2			<0.005	<0.005	<0.005	<0.005					
MW77-97-10-24.5	24.5			<0.005	<0.005	<0.005	<0.005					
MW77-97-10-33.5	33.5			<0.005	<0.005	<0.005	<0.005					
MW77-97-10-45	45			<0.005	<0.005	<0.005	<0.005					

	= Not analyzed
<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)

BC = Analysis by BC Laboratories
C = Analysis by Chromalab
Q = Analysis by Quanteq Laboratories
MT = Analysis by MedTox Associates

PRGs for Residential Soil for Detected Organic Analytes (mg/kg)
Chloroform=0.24

VOCs analyzed by EPA Method 8010, 8240, or 8260
BTEX analyzed by EPA Method 8020
Oil & Grease analyzed by EPA Method 413.1
Cyanide analyzed by EPA Method 9012
Fuel Identification analyzed by EPA Method 8015M included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/Petroleum Benzine, Gasoline, JP4, JP5, JP6, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic Oil, and WD-40

RFA = RCRA Facility Assessment
COPCs = Chemicals of Potential Concern

Table C3.6-1
Soil Sampling Results (mg/kg)
Chicken Creek Former Poultry Research Station
Concentrations of Organic Constituents

					SVOCs	Pesticides and PCBs	
						4,4-DDE	4,4-DDT
				PRG		1.7	1.7
Location	**Sample ID**	**Depth (ft)**	**Date**	**Lab**			
Poultry Research Pit	SS-CKPit-97-1A-2.5	2.5	Feb-97	BC	ND	0.0003	0.0006
	SS-CKPit-97-2A-2.5	2.5			ND	0.0003	0.0003
	SS-CKPit-97-3A-2	2			ND	0.0006	0.0010
	SS-CKPit-97-4A-2	2			ND	<0.0002	<0.0002
	SS-CKPit-97-5A-5	5			ND	<0.0002	<0.0002
	SS-CKPit-97-6A-5	5			ND	<0.0002	<0.0002
	SS-CKPit-97-7A-5	5			ND	<0.0002	<0.0002
	SS-CKPit-97-8A-4.5	4.5			ND	<0.0002	<0.0002
	SS-CKPit-97-9A-5	5			ND	<0.0002	<0.0002

< = Not detected above reporting limit (reporting limit shown)
ND = Not detected above reporting limit (reporting limit varies with analyte)

BC = Analysis by BC Laboratories

SVOCs analyzed by EPA Method 8270
Pesticides and PCBs analyzed by EPA Method 8080

Table C3.7-1
Soil Sampling Results (mg/kg)
Grizzly Electrical Substation
Concentrations of Organic Constituents

					BTEX	PCBs	TPH-Fuel Identification	PAH
						Aroclor 1260		
				PRG		0.22		
Location	Sample ID	Depth (ft)	Date	Lab				
Grizzly Substation	SS-GS-98-1-1.75	1.75	Jun-98	BC		<0.01		
	SS-GS-98-2A-0.5	0.5				<0.01		
	SS-GS-98-2B-0.5	0.5				<0.01		
	SS-GS-98-2C-2	2				<0.01		
	SS-GS-98-2D-3.5	3.5				<0.01		
	SS-GS-98-3-1.2	1.2				<0.01		
	SS-GS-98-4-1.8	1.8				<0.01		
	SS-GS-98-5-0.8	0.8				<0.01		
	SS-GS-98-6-0.75	0.75				<0.01		
	SS-GS-98-7-0.7	0.7				<0.01		
	SS-GS-98-8-0.7	0.7				<0.01		
	SS-GS-98-9-0.8	0.8				<0.01		
	SS-GS-98-10-1.6	1.6				<0.01		
	SS-GS-98-11-1.6	1.6				<0.01		
	SS-GS-98-12-1.5	1.5				<0.01		
	SS-GS-98-13-1.5	1.5				<0.01		
	SS-GS-98-14-0.7	0.7				<0.01		
	SS-GS-98-15-0.9	0.9				<0.01		
	SS-GS-98-16-0.7	0.7				0.017		
	SS-GS-98-17-1.5	1.5				<0.01		
	SS-GS-98-18-1.4	1.4				<0.01		
	SS-GS-98-18-1.9	1.9			ND			ND
	SS-GS-98-19-0.9	0.9				0.018		

Table C3.7-1
Soil Sampling Results (mg/kg)
Grizzly Electrical Substation
Concentrations of Organic Constituents

					BTEX	PCBs	TPH-Fuel Identification	PAH
						Aroclor 1260		
				PRG		0.22		
Location	Sample ID	Depth (ft)	Date	Lab				
Grizzly Substation	SS-GS-98-19-1.4	1.4	Jun-98	BC	ND		Diesel=190 Hydraulic/Motor Oil=130	ND
	SS-GS-98-20-1.3	1.3			ND			ND
	SS-GS-98-21-1	1					Diesel=20 Crude/Waste Oil=57	
	SS-GS-98-22-1.4	1.4					Hydraulic/Motor Oil=52	
	SS-GS-98-23-0.9	0.9					ND	
	SS-GS-98-24-1	1				<0.01	Hydraulic/Motor Oil=66	ND

<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

BC = Analysis by BC Laboratories

BTEX analyzed by EPA Method 8020
PCBs analyzed by EPA Method 8080
Fuel Identification analyzed by EPA Method 8015M, included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/ Petroleum Benzin, Gasoline, JP4, JP5, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic/Motor Oil, and WD-40
PAHs analyzed by EPA Method 8310

Table C3.8-1
Other Soil Sampling Results (mg/kg)
Concentrations of Organic Constituents and Cyanide

					VOCs	Cyanide
				PRG	cis-1,2-DCE=43 PCE=5.7	11
Location	**Sample ID**	**Depth (ft)**	**Date**	**Lab**		
Building 69A	BS-SB69A-99-1-3	3	Oct-99	BC	ND	
	BS-SB69A-99-1-5.5	5.5			ND	
	BS-SB69A-99-1-10.3	10.3			ND	
	BS-SB69A-99-1-14.2	14.2			ND	
	BS-SB69A-99-1-19.3	19.3			ND	
	BS-SB69A-99-1-23.8	23.8			ND	
	BS-SB69A-99-1-29.3	29.3			cis-1,2-DCE=0.0083	
	BS-SB69A-99-1-34.1	34.1			cis-1,2-DCE=0.0059	
Building 77	SS-77-99-1-1.7	1.7	Dec-99	BC	ND	
	SS-77-99-3-1.7	1.7			ND	
	SS-77-99-4-1.6	1.6			ND	
	SS-77-99-5-1.7	1.7			ND	
	SS-77-00-2-1.4	1.4	Apr-00	BC	ND	<0.5
	SS-77-00-3-1.5	1.5			PCE=0.012	<0.5
	SS-77-00-4-1.5	1.5			ND	<0.5
	SS-77-00-5-1.3	1.3			PCE=0.0091	<0.5
	SS-77-00-6-1.5	1.5			PCE=0.042	<0.5
	SS-77-00-7-1.8	1.8			PCE=0.023	
	SS-77-00-8-1.8	1.8			ND	
	SS-77-00-9-1.9	1.9			ND	

Table C3.8-1
Other Soil Sampling Results (mg/kg)
Concentrations of Organic Constituents and Cyanide

					VOCs	Cyanide
				PRG	cis-1,2-DCE=43 PCE=5.7	11
Location	**Sample ID**	**Depth (ft)**	**Date**	**Lab**		
Building 77	SS-77-00-11-1.4	1.4	Apr-00	BC	ND	<0.5
	SS-77-00-10-1.5	1.5			p-isopropyltoluene=0.0056	
SB31-97-1	BS-SB31-97-1-RecompA		Sep-97	BC	ND	
SB31-97-2	BS-SB31-97-2-RecompA				ND	
SB31-97-3	BS-SB31-97-3-RecompA				ND	

	= Not analyzed
<	= Not detected above reporting limit (reporting limit shown)
ND	= Not detected above reporting limit (reporting limit varies with analyte)

BC = Analysis by BC Laboratories
VOCs analyzed by EPA Method 8260
Cyanide analyzed by EPA Method 9012

Table C4.3-1
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW91-1 (well is on annual sampling)													
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	Aug-94	Feb-95*	Sep-95	Mar-96	Mar-97	Jun-97	May-98*	May-99
Aromatic and Non-Halogenated Hydrocarbons															
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<0.5	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<0.5	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<1	<0.5	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons															
Halogenated Non-Aromatic Hydrocarbons															
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons															
Total Concentration of VOCs															

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW91-2 (well is on semi-annual sampling)																				
		Nov-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Sep-94	Nov-94*	Feb-95*	Sep-95	(D)*	Mar-96	Aug-96	Mar-97	Sep-97	Mar-98	Sep-98	Mar-99	Sep-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons																						
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<2	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	10.0	3.7	6.1	3.2	5.7	2.6	3.8	1.1	3.1	3.1	2.5	2.5	3.9	2.0	2.4	1.6	2.5	1.3	1.5	1.7	1.9
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	15.1	4.5	6.0	5.3	5.6	4.6	5.0	1.6	3.5	3.7	4.3	3.2	4.6	1.8	2.9	1.5	3.6	1.3	1.6	1.4	1.9
cis-1,2-Dichloroethene	6	18.8	19.2	23.3	18.4	20.9	16.7	21.5	9.8	14.0	14.0	15.7	11.0	18.9	9.7	11.2	8.2	15.1	7.3	9.4	6.9	8.7
trans-1,2-Dichloroethene	10	16.8	8.6	9.0	5.4	6.1	7.5	5.1	3.7	3.5	4.2	7.2	4.8	7.1	1.8	2.2	2.0	4.9	1.3	1.8	1.8	2.3
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	6.5	<1	<1	<1	<1	<1	<1	<1	1.0
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	2.6
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	2.6	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		60.7	36.0	44.4	32.3	38.3	31.4	35.4	16.2	24.1	25.0	29.7	21.5	43.6	15.3	18.7	13.3	26.1	11.2	14.3	11.8	18.4
Total Concentration of VOCs		60.7	36.0	44.4	32.3	38.3	31.4	35.4	16.2	24.1	25.0	29.7	21.5	43.6	15.3	18.7	13.3	26.1	11.2	14.3	11.8	18.4

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW91-3 (well is on annual sampling)																
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May 94*	Aug-94	Nov-94*	Feb-95*	Aug-95	Feb-96	Jul-96	Feb-97	Aug-97	Aug-98	Aug-99
Aromatic and Non-Halogenated Hydrocarbons																		
Benzene	1	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	1.0	2.9	<1	<1	0.51	1.3	0.55	0.61	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons				1.0	2.9			0.51	1.3	0.55	0.61							
Total Concentration of VOCs				1.0	2.9			0.51	1.3	0.55	0.61							

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW91-4 (well is on semi-annual sampling)																														
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Feb-95*	May-95*	Sep-95	Dec-95†	(D)*	Mar-96	Jun-96	Aug-96	Dec-96*	Mar-97	Jun-97	Sep-97	Dec-97*	Mar-98	Jun-98	Sep-98	Nov-98	Feb-99	Jun-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons																																
Benzene	1	25.6	22.3	6.7	3.6	52.9	12.9	<1	10.4	28.0	16.0	24.0	8.7	4.7	76.0	52.0	4.5	98.3	57.4	5.6	34.3	11.1	47.7	12.0	32.2	31.4	31.6	43.5	36.2	23.9	10.5
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	1.1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<2	<2	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<6	<2	<2	<2	<1	<2	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons		25.6	22.3	6.7	3.6	52.9	12.9		10.4	29.1	16.0	24.0	8.7	4.7	76.0	52.0	4.5	98.3	57.4	5.6	34.3	11.1	47.7	12.0	32.2	31.4	31.6	43.5	36.2	23.9	10.5
Halogenated Non-Aromatic Hydrocarbons																																
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	5.4	2.2	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<2	<0.5	<2	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20	<6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<5	<1	<1	<1	8.2	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<5	<1	1.0	1.0	1.3	<1	<1	<1	0.52	0.61	<0.5	<1	<5	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5		<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<10	<3	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			5.4	2.2	1.0	1.0	9.5				0.52	0.61																			
Total Concentration of VOCs		25.6	27.7	8.9	4.6	53.9	22.4		10.4	29.1	16.52	24.61	8.7	4.7	76.0	52.0	4.5	98.3	57.4	5.6	34.3	11.1	47.7	12.0	32.2	31.4	31.6	43.5	36.2	23.9	10.5

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW91-5 (well is on annual sampling)																		
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May 94*	Aug-94	Nov-94*	Mar-95*	(D)†	Aug-95	Feb-96	Jul-96	Dec-96	Feb-97	Aug-97	Aug-98	Sep-99
Aromatic and Non-Halogenated Hydrocarbons																				
Benzene	1	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	1.1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1
Toluene	150	<5	1.4	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<2	<2	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	1.3	<1	<1	<1	<1	<6.0	<1	<1	<1	<10	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			3.8																	
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<3.0	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	5.4	1.5	1.3	1.2	1.7	<3.0	1.4	1.3	1.1	<5	<1	<1	1.1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	1.0	<1	<1	<1	<1	<3.0	<1	0.52	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5		<5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<3.0	<1	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			6.4	1.5	1.3	1.2	1.7		1.4	1.82	1.1				1.1					
Total Concentration of VOCs			10.2	1.5	1.3	1.2	1.7		1.4	1.82	1.1				1.1					

MCL = Maximum contaminant level for drinking water
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< = Less than Quantitation Limit
(blank) = Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW91-6 (well is on annual sampling)																	
		Dec-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May 94*	Aug-94	Dec-94*	Jan-95*	Aug-95	Feb-96	Jul-96	Dec-96	Feb-97	Aug-97	Aug-98	Sep-99
Aromatic and Non-Halogenated Hydrocarbons																			
Benzene	1	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	1.2	<1	<1	<0.5	1.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons					1.2				1.5										
Total Concentration of VOCs					1.2				1.5										

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MWP-9 (well is on annual sampling)																																			
		Nov-92	Mar-93	(D)	May-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Feb-95*	May-95*	Sep-95	Nov-95	Feb-96*	Mar-96*	Apr-96	May-96	(D)	Jul-96	Nov-96*	Dec-96	Feb-97*	Feb-97*	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98	Aug-98	Nov-98	Jan-99	Apr-99	Aug-99
Aromatic and Non-Halogenated Hydrocarbons																																					
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																																					
Halogenated Non-Aromatic Hydrocarbons																																					
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	3.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	1.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	2.0	213.0	<1	<1	<1	<1	18.0	<1	12.9	4.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	78.5	<1	<1	<1	<1	4.2	<1	3.4	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.8	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons																2.0	296.8					22.2		16.3	5.6												
Total Concentration of VOCs																2.0	296.8					22.2		16.3	5.6												

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate Sample
• = Detections are due to cross contamination during sampling

Area 5 VOC Sum

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MWP-10 (well is on annual sampling)																												
		Nov-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94*	Jan-95*	May-95*	Aug-95	Nov-95	Feb-96	May-96	Jul-96	Nov-96	Feb-97	May-97	Aug-97	Nov-97	Feb-98	May-98	Aug-98	Nov-98	Jan-99	Apr-99	Aug-99
Aromatic and Non-Halogenated Hydrocarbons																														
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																														
Halogenated Non-Aromatic Hydrocarbons																														
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	0.82	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons										0.82																				
Total Concentration of VOCs										0.82																				

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	MW76-1 (well is on semi-annual sampling)																						
		Dec-92	Mar-93	May-93	Aug-93	Nov-93	Mar-94	Jun-94	Sep-94	(D)*	Dec-94*	Mar-95*	Aug-95	Mar-96	Aug-96	Dec-96*	Mar-97	Jun-97	Aug-97	Feb-98	Sep-98	Feb-99	Sep-99	Feb-00
Aromatic and Non-Halogenated Hydrocarbons																								
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	0.63	0.64	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.2	<0.5	<1	<2	<1	0.64	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.2	<0.5	<1	<2	<1	0.74	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.2	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	0.52	<0.5	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	0.55	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1.0	<1	<1	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons											4.75	1.19				1.38								
Halogenated Non-Aromatic Hydrocarbons																								
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	0.66	<0.5	1.3	1.7	<1	0.70	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	1.4	<0.5	<1	<1	<1	0.75	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	13.4	9.4	11.1	7.6	5.8	4.9	8.5	2.3	3.9	21.0	12.0	6.1	5.6	8.3	14.0	13.2	12.4	7.9	9.6	6.3	8.5	6.2	9.0
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	4.8	<1	<1	5.4	6.0	0.62	<0.5	2.0	2.5	<1	0.77	<1	<1	12.4	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	4.8	6.0	4.5	2.7	3.2	3.0	1.6	1.9	9.7	3.2	2.7	3.0	1.6	2.1	3.5	2.5	3.7	4.2	1.8	1.5	1.8	2.9
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		13.4	14.2	17.1	12.1	13.3	8.1	11.5	9.3	11.8	33.38	15.2	12.1	12.8	9.9	18.32	16.7	14.9	24.0	13.8	8.1	10.0	8.0	11.9
Total Concentration of VOCs		13.4	14.2	17.1	12.1	13.3	8.1	11.5	9.3	11.8	38.13	16.39	12.1	12.8	9.9	19.70	16.7	14.9	24.0	13.8	8.1	10.0	8.0	11.9

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-92-10 (well is on annual sampling)																		
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Jun-94	Aug-94	Dec-94*	Mar-95*	Aug-95	Mar-96	Jul-96	Mar-97	Aug-97	Feb-98	Aug-98	Feb-99
Aromatic and Non-Halogenated Hydrocarbons																				
Benzene	1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	11.0	4.3	2.9	3.3	2.2	3.6	<1	1.3	1.2	1.1	<1	4.0	1.1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	8.7	2.3	1.5	1.3	1.0	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	2.0	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			19.7	6.6	4.4	4.6	3.2	3.6		1.3	1.2	1.1		6.0	1.1					
Total Concentration of VOCs			19.7	6.6	4.4	4.6	3.2	3.6		1.3	1.2	1.1		6.0	1.1					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	61-92-12 Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Jun-94	Sep-94	Nov-94*	Mar-95*	Sep-95	Mar-96	Aug-96	Mar-97	Jun-97	Aug-97	Nov-97	Feb-98	Jun-98	Sep-98	Nov-98	Feb-99	May-99	Aug-99	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons																												
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	2.0	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			2.0																									
Halogenated Non-Aromatic Hydrocarbons																												
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	3.9	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons							3.9																					
Total Concentration of VOCs			2.0				3.9																					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	69A-92-22 (well is on annual sampling)																			
		Aug-93	Nov-93	Mar-94	May 94*	Aug-94	Dec-94*	Feb-95*	(D)*	May-95*	Aug-95	Nov-95	Mar-96	Jun-96	Aug-96	Nov-96	Mar-97	Aug-97	Feb-98	Aug-98	Feb-99
Aromatic and Non-Halogenated Hydrocarbons																					
Benzene	1	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1.0	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	3.0	1.9	<1	0.67	<1	0.87	0.76	0.71	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	4.1	2.2	1.5	0.73	<1	0.96	0.81	0.82	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	5.1	2.2	1.2	0.64	<1	0.87	0.69	0.72	0.50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	1.0	<0.5	3.0	<0.5	<0.5	<0.5	<0.5	<1	1.2	1.5	<1	<1	<1	1.5	2.3	<1	1.4	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	1.1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		12.2	6.3	3.7	2.04	3.0	2.70	2.26	2.25	0.50		1.2	2.6				1.5	2.3		1.4	
Total Concentration of VOCs		12.2	6.3	3.7	2.04	3.0	2.70	2.26	2.25	0.50		1.2	2.6				1.5	2.3		1.4	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	75-92-23 (well is on annual sampling)															
		Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	Sep-94	Feb-95*	Aug-95	Mar-96	Jul-96	Dec-96	Feb-97	Aug-97	Aug-98	Sep-99
Aromatic and Non-Halogenated Hydrocarbons																	
Benzene	1	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Toluene	150	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Carbon Tetrachloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	1.0	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<0.6	<1	<1	<1	<1	<1	<1	<0.5	<5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons											1.0						
Total Concentration of VOCs											1.0						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	75B-92-24 (well is on annual sampling)																			
		Oct-92	(D)	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec 94*	Feb-95*	Sep-95	Mar-96	Jul-96	Dec-96	Mar-97	Aug-97	Sep-98	Sep-99
Aromatic and Non-Halogenated Hydrocarbons																					
Benzene	1	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
sec-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
ter-Butylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Isopropylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
n-Propylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Toluene	150	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5		<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<2	<2	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																					
Halogenated Non-Aromatic Hydrocarbons																					
Carbon Tetrachloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<2	<5	<1	1.3	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<2	<5	<1	2.9	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<2	<5	<1	1.9	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1		<0.6	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<2	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons						6.1															
Total Concentration of VOCs						6.1															

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
(blank) = Compound not included in analysis

(D) Duplicate sample analyzed by Chromalab, EPA Method 8240
* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	76-92-25 (well is on annual sampling)																							
		Oct-92	Dec-92	Mar-93	Jun-93	Aug-93	Nov-93	Mar-94	May-94	Aug-94	Dec-94* (D)*		Feb-95*	May-95*	Aug-95	Nov-95	Mar-96	Jun-96	Aug-96	Aug-96	Dec-96	Mar-97	Aug-97	Aug-98	Aug-99
Aromatic and Non-Halogenated Hydrocarbons																									
Benzene	1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																									
Halogenated Non-Aromatic Hydrocarbons																									
Carbon Tetrachloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<5	<5	<1	<1	<1	<1	11.9	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	6.8	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<5	<5	<1	<1	<1	<1	5.2	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons								17.1											6.8						
Total Concentration of VOCs								17.1											6.8						

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	76-93-6 (well is on annual sampling)																		
		Oct-93	(D)*	Mar-94	May-94	Aug-94	Dec-94*	Mar-95*	Jun-95*	Aug-95	Nov-95	Feb-96	Jun-96	Aug-96	Dec-96	Feb-97	Aug-97	Jan-98	Aug-98	Feb-99
Aromatic and Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																				
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	1.6	1.6	<1	1.5	<1	1.5	0.98	0.72	1.0	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	1.3	<1	<1	<0.5	<0.5	<0.5	<1	<1	1.1	2.5	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	1.2	1.1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1		<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1.6	1.6	1.3	1.5		1.5	0.98	0.72	1.0	1.2	2.3	3.6							
Total Concentration of VOCs		1.6	1.6	1.3	1.5		1.5	0.98	0.72	1.0	1.2	2.3	3.6							

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	76-93-7 (well is on annual sampling)																				
		Oct-93	Jan-94	(D)*	Jun-94	Aug-94	Dec-94*	Mar-95*	Jun-95*	Aug-95	Dec-95	Feb-96	Jun-96	(S)†	Jun-96†	Aug-96	Dec-96	Mar-97	Jun-97	Feb-98	Aug-98	Jan-99
Aromatic and Non-Halogenated Hydrocarbons																						
Benzene	1	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1			<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<5	<5	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																						
Halogenated Non-Aromatic Hydrocarbons																						
Carbon Tetrachloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	3.0	3.1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	10.5	4.4	2.7	<1	0.81	0.73	<0.5	<1	2.2	1.7	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	0.8	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1*	<1	<1	<1	<1
Freon-113	1200	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<0.5	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			13.5	8.3	2.7		0.81	0.73			2.2	1.7										
Total Concentration of VOCs			13.5	8.3	2.7		0.81	0.73			2.2	1.7										

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by California Laboratory Services
(D) = Duplicate sample
(S) = Split sample

Arc · 1 VOC Sum

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-93-8 (well is on annual sampling)																		
		Oct-93	(D)*	Mar-94	Jun-94	Aug-94	Nov-94*	Feb-95*	May-95*	Aug-95	Nov-95	Mar-96	Jun-96	Jul-96	Dec-96	Mar-97	Aug-97	Feb-98	Aug-98	Feb-99
Aromatic and Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	1.1	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons			1.1																	
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	1.4	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	0.8	<1	<1	<1	0.71	0.67	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	1.4	2.1	<1	<1	0.91	1.0	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	0.9	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1		<1	<1	<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			4.5	2.1			1.62	1.67												
Total Concentration of VOCs			5.6	2.1			1.62	1.67												

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-94-5 (well is on annual sampling)																					
		Jun-94*	(D)†	Sep-94	Dec-94*	Feb-95*	May-95*	Sep-95	Dec-95	Mar-96	Jun-96	Jul-96	Dec-96	Mar-97	May-97	Aug-97	Nov-97	Feb-98	May-98*	Aug-98	Nov-98	Feb-99	May-99
Aromatic and Non-Halogenated Hydrocarbons																							
Benzene	1	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	700	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																							
Halogenated Non-Aromatic Hydrocarbons																							
Carbon Tetrachloride	0.5	<0.5	<5	<1	1.4	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<0.5	<5	<1	1.9	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<5	<1	0.61	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	1.6	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	36.0	<0.5	<0.5	<1	<1	1.6	<1	4.2	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<0.5	<5	<1	13.0	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	1.2		<1	2.4	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1.2			56.91					1.6		4.2											
Total Concentration of VOCs		1.2			56.91					1.6		4.2											

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-94-6 (well is on annual sampling)																	
		Jun-94*	(D)†	Sep-94	Dec-94*	Feb-95*	May-95*	Aug-95	Dec-95	Mar-96	Jun-96	(D)	Jul-96	Dec-96	Mar-97	Aug-97	Feb-98	Aug-98	Mar-99
Aromatic and Non-Halogenated Hydrocarbons																			
Benzene	1	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<2	<2	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1.0	<10	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	0.5	<5	<1	0.7	0.61	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<0.5	<5	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	1.2		<1	<0.5	<0.5	<0.5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<0.5	<10	<1	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		1.7			0.7	0.61													
Total Concentration of VOCs		1.7			0.7	0.61													

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
= Compound not included in analysis

* = Analysis by BC Laboratories
† = Analysis by AEN
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	75-96-20 Mar-97	(D)*	Jun-97	Aug-97	Nov-97	Feb-98	May-98	Sep-98	Nov-98	Feb-99	May-99	Sep-99	Nov-99	Mar-00	May-00
Aromatic and Non-Halogenated Hydrocarbons																
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons																
Halogenated Non-Aromatic Hydrocarbons																
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	0.84	2.5	1.3	1.3	1.0	1.3	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	2.0	3.2	6.3	2.7	2.8	1.7	2.6	2.2	2.3	1.8	1.9	2.7	3.0	2.6	2.9
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	2.4	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	6.0	5.0	12.0	7.3	8.6	7.3	9.3	5.8	5.3	5.6	4.7	7.0	6.1	7.7	4.4
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		10.4	9.04	21.8	11.3	12.7	10.0	13.2	8.0	7.6	7.4	6.6	9.7	9.1	11.9	7.3
Total Concentration of VOCs		10.4	9.04	21.8	11.3	12.7	10.0	13.2	8.0	7.6	7.4	6.6	9.7	9.1	11.9	7.3

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	75-97-5 Aug-98	(D)*	Nov-98	Mar-99	May-99	Sep-99	Nov-99	Feb-00	May-00	75-97-6 (well is on annual sampling) Aug-97	(D)*	Dec-97	Feb-98	May-98*	Aug-98	Nov-98	Mar-99	May-99
Aromatic and Non-Halogenated Hydrocarbons																			
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<1	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																			
Halogenated Non-Aromatic Hydrocarbons																			
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	1.4	1.8	1.8	3.5	2.7	2.2	2.2	2.2	2.7	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	1.5	2.2	1.9	2.1	3.5	2.9	3.0	3.1	4.0	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	0.68	<1	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons		2.9	4.0	3.7	5.6	6.2	5.1	5.2	5.3	6.7		0.68							
Total Concentration of VOCs		2.9	4.0	3.7	5.6	6.2	5.1	5.2	5.3	6.7		0.68							

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	75-97-7 (well is on annual sampling)									69-97-8									
		Jul-97	(D)*	Dec-97	Jan-98	May-98*	Aug-98	Nov-98	Feb-99	May-99	Feb-98	Jul-98	(D)*	Nov-98	Jan-99*	May-99	Aug-99	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons																				
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<1	<0.5	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	2.1	2.8	<1	<0.5	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons												2.1	2.8							
Halogenated Non-Aromatic Hydrocarbons																				
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	26.5	19.6	23.0	27.8	20.0	29.4	20.6	27.1	20.8	21.0
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	3.2	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons											26.5	19.6	23.0	27.8	20.0	29.4	23.8	27.1	20.8	21.0
Total Concentration of VOCs											26.5	21.7	25.8	27.8	20.0	29.4	23.8	27.1	20.8	21.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-97-9 (well is on annual sampling)									77-97-11 (well is on annual sampling)							
		Aug-97	(D)*	Dec-97	Feb-98	May-98*	Aug-98	Nov-98	Mar-99	May-99	Jul-97	(D)*	Dec-97	May-98*	Aug-98	Nov-98	Mar-99	May-99
Aromatic and Non-Halogenated Hydrocarbons																		
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																		
Halogenated Non-Aromatic Hydrocarbons																		
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	2.2
1,1-Dichloroethane	5	<1	0.67	<1	<1	<0.5	<1	<1	<1	<1	<1	0.51	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons			0.67									0.51						2.2
Total Concentration of VOCs			0.67									0.51						2.2

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	31-97-17 (well is on annual sampling)								31-97-18 (well is on annual sampling)							
		Oct-97	(D)*	Nov-97	May-98*	Aug-98	Nov-98	Feb-99	May-99	Oct-97	(D)*	Nov-97	May-98*	Aug-98	Nov-98	Jan-99	Apr-99
Aromatic and Non-Halogenated Hydrocarbons																	
Benzene	1	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<1	<2	<2	<2	<2	<2	<1	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons																	
Halogenated Non-Aromatic Hydrocarbons																	
Carbon Tetrachloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons																	
Total Concentration of VOCs																	

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample
(G) = Grab sample

Table [illegible]-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	78-97-20 (well is on annual sampling) Oct-97	(D)*	Dec-97	Feb-98	May-98*	Aug-98	Nov-98	Feb-99	May-99
Aromatic and Non-Halogenated Hydrocarbons										
Benzene	1	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Methyl tert-Butyl Ether		<5		<5	<5		<5	<5	<5	<5
Naphthalene		<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<1	<2	<2	<2	<2
Total Aromatic Hydrocarbons										
Halogenated Non-Aromatic Hydrocarbons										
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<0.5	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	0.51	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	0.86	<1	<1	0.86	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Trichloroethene	5	<1	1.1	<1	<1	2.1	1.3	<1	1.9	2.6
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<1	<1	<1	<1
Total Halogenated Hydrocarbons			1.96			3.47	1.3		1.9	2.6
Total Concentration of VOCs			1.96			3.47	1.3		1.9	2.6

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
* = Analysis by BC Laboratories

< = Less than Quantitation Limit
= Compound not included in analysis
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	69-97-21 (well is on annual sampling)							
		Mar-98	Mar-98*	Jun-98	Aug-98	Nov-98	Feb-99	May-99	Feb-00
Aromatic and Non-Halogenated Hydrocarbons									
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons									
Halogenated Non-Aromatic Hydrocarbons									
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons									
Total Concentration of VOCs									

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	75-98-14 Jul-99	(D)*	Nov-99	Feb-00	May-00	75-98-15 Mar-99	(D)*	Apr-99	Aug-99	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons													
Benzene	1	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Chloroform	100	5.4	4.9	1.3	<1	<1	<1	0.78	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	0.76	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	3.9	3.9	4.0	2.1	2.0	<1	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	1.3	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		9.3	10.86	5.3	2.1	2.0		0.78					
Total Concentration of VOCs		9.3	10.86	5.3	2.1	2.0		0.78					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	31-98-17 Nov-98 (G)	Jul-99	Jul-99	(D)*	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons								
Benzene	1	<1	<1	<1	<0.5	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<0.5	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<0.5	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<0.5	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<0.5	<1	<1	<1
Naphthalene		<2	<2	<2	<0.5	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<0.5	<1	<1	<1
Toluene	150	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<0.5	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<0.5	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<1	<2	<2	<2
Total Aromatic Hydrocarbons								
Halogenated Non-Aromatic Hydrocarbons								
Carbon Tetrachloride	0.5	<1	<1	<1	<0.5	<1	<1	<1
Chloroform	100	<1	<1	<1	<0.5	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<0.5	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<0.5	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<0.5	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<0.5	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<0.5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<0.5	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<0.5	<1	<1	<1
Freon-113	1200	<1	<1	<1	<0.5	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<0.5	<1	<1	<1
Total Halogenated Hydrocarbons								
Total Concentration of VOCs								

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
* = Analysis by BC Laboratories

< = Less than Quantitation Limit
(D) = Duplicate sample
(G) = Grab sample

Table C4.3-1 (Cont'd)

LBNL Groundwater Monitoring Well Results

Volatile Organic Compounds - EPA Method 8260

(concentrations in µg/L)

Constituent	MCL	76-98-21 Jul-99	(D)*	Sep-99	Nov-99	Mar-00	May-00	76-98-22 Jan-99	(D)*	May-99#	Sep-99	Nov-99	Feb-00	May-00
Aromatic and Non-Halogenated Hydrocarbons														
Benzene	1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether		<5	<0.5	<5	<5	<5	<5	<5	<0.5	<5	<5	<5	<5	<5
Naphthalene		<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Chloroform	100	<1	<0.5	1.4	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<2	<0.5	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	1.2	<1	1.2	<1	2.9	<1	0.83	<1	<1	<1	1.9	1.7
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Trichloroethene	5	12.5	11.0	15.0	13.8	11.4	21.5	<1	<0.5	<1	<1	<1	<1	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		12.5	12.2	16.4	15.0	11.4	24.4		0.83				1.9	1.7
Total Concentration of VOCs		12.5	12.2	16.4	15.0	11.4	24.4		0.83				1.9	1.7

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
* = Analysis by BC Laboratories

< = Less than Quantitation Limit
= Sample was analyzed after holding time expired

(D) = Duplicate sample

Table C4.3-1 (Cont'd)
LBNL Groundwater Monitoring Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	75-99-4 Oct-99	(D)*	Nov-99	Feb-00	May-00	75-99-6 Feb-00	(D)*	May-00
Aromatic and Non-Halogenated Hydrocarbons									
Benzene	1	<1	<0.5	<1	<1	<1	<1	<0.5	<1
n-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1
sec-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1
ter-Butylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1
Ethylbenzene	700	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Isopropylbenzene		<2	<0.5	<2	<2	<2	<2	<0.5	<2
p-Isopropyltoluene		<1	<0.5	<1	<1	<1	<1	<0.5	<1
Naphthalene		<2	<0.5	<2	<2	<2	<2	<0.5	<2
n-Propylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1
Toluene	150	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<1	<1	<0.5	<1
Xylenes, total	1750	<2	<1	<2	<2	<2	<2	<1	<2
Total Aromatic Hydrocarbons									
Halogenated Non-Aromatic Hydrocarbons									
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Chloroform	100	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,2-Dichloroethane	0.5	<2	<0.5	<2	<2	<2	<2	<0.5	<2
1,1-Dichloroethene	6	<1	<0.5	1.2	<1	<1	<1	<0.5	<1
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<1	<1	<0.5	<1
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<1	<1	<0.5	<1
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Trichloroethene	5	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Freon-113	1200	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<1	<1	<0.5	<1
Total Halogenated Hydrocarbons				1.2					
Total Concentration of VOCs				1.2					

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit
* = Analysis by BC Laboratories

(D) = Duplicate sample

Area 3 VOC Sum

Table C4.3-2
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SB69A-99-1		SB76-97-2	W76-97-3					
		Oct-99	Nov-99	Oct-97	Feb-97	Mar-98	Aug-98	Mar-99	Oct-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons										
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether		<5	<5	<5		<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons										
Halogenated Non-Aromatic Hydrocarbons										
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	1.0	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	1.1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	72.0	99.3	<1	<1	3.2	1.3	2.3	<1	2.1
trans-1,2-Dichloroethene	10	<1	1.1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	14.9	34.9	17.6	26.1	14.9	14.9
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	1.6	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		72.0	102.0		14.9	40.2	18.9	28.4	14.9	17.0
Total Concentration of VOCs		72.0	102.0		14.9	40.2	18.9	28.4	14.9	17.0

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

Table C4.3-2 (Cont'd)
LBNL Temporary Groundwater Sampling Points
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	W76-97-4 Feb-97	Mar-98	Aug-98	Mar-99	Oct-99	Mar-00	W76-97-5 Feb-97	Mar-98	Aug-98	Mar-99	Oct-99	Mar-00
Aromatic and Non-Halogenated Hydrocarbons													
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether			<5	<5	<5	<5	<5		<5	<5	<5	<5	<5
Naphthalene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons													
Halogenated Non-Aromatic Hydrocarbons													
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tetrachloroethene	5	<1	6.8	<1	<1	<1	2.0	<1	1.5	3.7	1.8	1.6	3.1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	14.9	4.0	<1	<1	<1	<1	<1	<1	1.2	<1	<1	5.7
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons		14.9	10.8				2.0		1.5	4.9	1.8	1.6	8.8
Total Concentration of VOCs		14.9	10.8				2.0		1.5	4.9	1.8	1.6	8.8

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

= Compound not included in analysis

Table C4.3-3
LBNL Hydrauger Sampling
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-01-01	77-01-02		77-02-05					77-02-06		
		Aug-98	Jan-93	Mar-93	Jan-93	Mar-94	Aug-98	Jan-00	Feb-00	Jan-93	Mar-94	Apr-94
Aromatic and Non-Halogenated Hydrocarbons												
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<2	<1	<1	<1	<1	<2	<2	<2	<1	<1	<1
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<2	<1	<1	<1	<1	<2	<2	<2	<1	<1	<1
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<2	<1	<1	<1	<1	<2	<2	<2	<1	<1	<1
Total Aromatic Hydrocarbons												
Halogenated Non-Aromatic Hydrocarbons												
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	9.3	1.5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<2	<1	<1	<1	<1	<2	<2	<2	<1	<1	<1
1,1-Dichloroethene	6	<1	19.0	3.4	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	5.5	11.0	6.8	<1	11.8	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<2	<1	<1	<1	<1	<2	<2	<2	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons			28.3	4.9			5.5	11.0	6.8		11.8	
Total Concentration of VOCs			28.3	4.9			5.5	11.0	6.8		11.8	

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table C4.3-3 (Cont'd)
LBNL Hydrauger Sampling
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Detected Compounds	MCL	77-02-11			77-02-12	77-03-1				77-03-03	
		Jan-93	Mar-94	Aug-98	Aug-98	Jan-93	Mar-94	Aug-98	Jan-00	Jan-93	Aug-98
Aromatic and Non-Halogenated Hydrocarbons											
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<2	<2	<1	<1	<2	<2	<1	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<2	<2	<1	<1	<2	<2	<1	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<2	<2	<1	<1	<2	<2	<1	<2
Total Aromatic Hydrocarbons											
Halogenated Non-Aromatic Hydrocarbons											
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<2	<2	<1	<1	<2	<2	<1	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<1	<2	<2	<1	<1	<2	<2	<1	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons											
Total Concentration of VOCs											

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

< = Less than Quantitation Limit

Table C4.3-3 (Cont'd)
LBNL Hydrauger Sampling
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-04-03		77-04-04				77-04-06			77-04-07			
		Jan-93	Aug-98	Jan-93	Mar-94	Aug-98	Jan-00	Jan-93	Aug-98	Jan-00	Jan-93	Mar-94	Aug-98	Jan-00
Aromatic and Non-Halogenated Hydrocarbons														
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<2	<1	<1	<2	<2	<1	<2	<2	<1	<1	<2	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<2	<1	<1	<2	<2	<1	<2	<2	<1	<1	<2	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<1	<1	<2	<2	<1	<2	<2	<1	<1	<2	<2
Total Aromatic Hydrocarbons														
Halogenated Non-Aromatic Hydrocarbons														
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<2	<1	<1	<2	<2	<1	<2	<2	<1	<1	<2	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<2	<1	<1	<2	<2	<1	<2	<2	<1	<1	<2	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons														
Total Concentration of VOCs														

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted

Table C4.3-3 (Cont'd)
LBNL Hydrauger Sampling
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	77-04-08				77-04-11	77-04-13	77-05-01	
		Jan-93	Mar-94	Aug-98	Jan-00	Jan-00	Jan-93	Jan-93	Aug-98
Aromatic and Non-Halogenated Hydrocarbons									
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene		<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<2	<2	<2	<1	<1	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene		<1	<1	<2	<2	<2	<1	<1	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<2	<2	<2	<2	<2	<2	<2
Total Aromatic Hydrocarbons									
Halogenated Non-Aromatic Hydrocarbons									
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<2	<2	<2	<1	<1	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane		<1	<1	<2	<2	<2	<1	<1	<2
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons									
Total Concentration of VOCs									

MCL = Maximum contaminant level for drinking water

< = Less than Quantitation Limit

All analyses by LBNL EML unless otherwise noted

Table C4.3-4
LBNL Slope Stability Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SSW1-130[a]			SSW3-130[a]	SSW4-130[a]	SSW5-130[a]	SSW9-130[a]		
		Jan-93	Sep-94	May-97	May-97	May-97	May-97	Jan-93	Sep-94	May-97
Aromatic and Non-Halogenated Hydrocarbons										
Benzene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene		<1	<1	<2	<2	<2	<2	<1	<1	<2
p-Isopropyltoluene		<1	<1	<1	2.5	<1	15.8	<1	<1	<1
Naphthalene		<1	<1	<2	<2	<2	<2	<1	<1	<2
n-Propylbenzene		<1	<1	<1	LT	<1	<1	<1	<1	<1
Toluene	150	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	1750	<1	<1	<2	<2	<2	<2	<1	<1	<2
Total Aromatic Hydrocarbons					2.5		15.8			
Halogenated Non-Aromatic Hydrocarbons										
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	100	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	1.3	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<2	<2	<2	<2	<1	<1	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	1.4	<1	<1	<1
cis-1,2-Dichloroethene	6	<1	<1	<1	<1	11.5	<1	26.2	2.8	3.0
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Freon-11		<1	<1	<2	<2	<2	<2	<1	<1	<2
Freon-113	1200	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Halogenated Hydrocarbons						11.5	2.7	26.2	2.8	3.0
Total Concentration of VOCs					2.5	11.5	18.5	26.2	2.8	3.0

MCL = Maximum contaminant level for drinking water
All analyses by LBNL EML unless otherwise noted
All samples are grab samples

< = Less than Quantitation Limit
* = Analysis by BC Laboratories
[a] = Abandoned to prevent infiltration of surface water

Table C4.3-4 (Cont'd)
LBNL Slope Stability Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SSW13-130[a]			SSW15-130[a]		SSW16-130[a]			
		Jan-93	Sep-94	May-97	Jan-93	May-97	Dec-92	Sep-94	Oct-94*	May-97
Aromatic and Non-Halogenated Hydrocarbons										
Benzene	1	<1	<1	<1	<1	<1	<5	<1	<0.5	<1
n-Butylbenzene		<1	<1	<1	<1	<1	<5	<1	<0.5	<1
sec-Butylbenzene		<1	<1	<1	<1	<1	<5	<1	<0.5	<1
ter-Butylbenzene		<1	<1	<1	<1	<1	<5	<1	<0.5	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<5	<1	<0.5	<1
Isopropylbenzene		<1	<1	<2	<1	<2	<5	<1	<0.5	<2
p-Isopropyltoluene		<1	<1	<1	<1	<1	<5	<1	<0.5	<1
Naphthalene		<1	<1	<2	<1	<2	<5	<1	<0.5	<2
n-Propylbenzene		<1	<1	<1	<1	<1	<5	<1	<0.5	<1
Toluene	150	<1	<1	<1	<1	<1	<5	<1	<0.5	<1
1,2,4-Trichlorobenzene	70	<1	<1	<1	<1	<1	<5	<1	<0.5	<1
1,2,4-Trimethylbenzene		<1	<1	<1	<1	<1	<5	<1	<0.5	<1
1,3,5-Trimethylbenzene		<1	<1	<1	<1	<1	<5	<1	<0.5	<1
Xylenes, total	1750	<1	<1	<2	<1	<2	<5	<1	<1	<2
Total Aromatic Hydrocarbons										
Halogenated Non-Aromatic Hydrocarbons										
Bromodichloromethane		<1	<1	<1	<1	<1	<5	<1	<1	<1
Carbon Tetrachloride	0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1
Chloroform	100	<1	<1	<1	2.2	<1	<5	<1	<1	<1
1,1-Dichloroethane	5	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,2-Dichloroethane	0.5	<1	<1	<2	<1	<2	<5	<1	<1	<2
1,1-Dichloroethene	6	<1	<1	<1	<1	<1	<5	<1	<1	<1
cis-1,2-Dichloroethene	6	3.8	1.8	<1	<1	<1	<5	113.5	140.0	26.6
trans-1,2-Dichloroethene	10	<1	<1	<1	<1	<1	<5	<1	1.2	<1
Methylene Chloride	5	<1	<1	<1	<1	<1	<5	<1	<1	<1
Tetrachloroethene	5	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1,1-Trichloroethane	200	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1,2-Trichloroethane	5	<1	<1	<1	<1	<1	<5	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<5	<1	<1	<1
Freon-11		<1	<1	<2	<1	<2	<1.1	<1	<1	<2
Freon-113	1200	<1	<1	<1	<1	<1	<0.6	<1	<1	<1
Vinyl Chloride	0.5	<1	<1	<1	<1	<1	<5	<1	<1	<1
Total Halogenated Hydrocarbons		3.8	1.8		2.2			113.5	141.2	26.6
Total Concentration of VOCs		3.8	1.8		2.2			113.5	141.2	26.6

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All samples are grab samples

< = Less than Quantitation Limit
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[a] = Abandoned to prevent infiltration of surface water

Table C4.3-4 (Cont'd)
LBNL Slope Stability and Slope Indicator Well Results
Volatile Organic Compounds - EPA Method 8260
(concentrations in µg/L)

Constituent	MCL	SSW19-130[a] Mar-94	SSW19-130[a] May 94*	SSW19-130[a] Sep-94	SSW19-130[a] (D)	SSW20-130 May-94*	SSW21-130 May-94*
Aromatic and Non-Halogenated Hydrocarbons							
Benzene	1	<1	<0.5	<1	<1	<0.5	<0.5
n-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5
sec-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5
ter-Butylbenzene		<1	<0.5	<1	<1	<0.5	<0.5
Ethylbenzene	700	<1	<0.5	<1	<1	<0.5	<0.5
Isopropylbenzene		<1	<0.5	<1	<1	<0.5	<0.5
p-Isopropyltoluene		<1	<0.5	<1	<1	<0.5	<0.5
Naphthalene		<1	<0.5	<1	<1	<0.5	<0.5
n-Propylbenzene		<1	<0.5	<1	<1	<0.5	<0.5
Toluene	150	<1	<0.5	<1	<1	<0.5	<0.5
1,2,4-Trichlorobenzene	70	<1	<0.5	<1	<1	<0.5	<0.5
1,2,4-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5
1,3,5-Trimethylbenzene		<1	<0.5	<1	<1	<0.5	<0.5
Xylenes, total	1750	<1	<1.0	<1	<1	<1.0	<1.0
Total Aromatic Hydrocarbons							
Halogenated Non-Aromatic Hydrocarbons							
Bromodichloromethane		<1	<0.5	<1	<1	<0.5	<0.5
Carbon Tetrachloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5
Chloroform	100	<1	<0.5	<1	<1	<0.5	<0.5
1,1-Dichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5
1,2-Dichloroethane	0.5	<1	<0.5	<1	<1	<0.5	<0.5
1,1-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<0.5
cis-1,2-Dichloroethene	6	<1	<0.5	<1	<1	<0.5	<0.5
trans-1,2-Dichloroethene	10	<1	<0.5	<1	<1	<0.5	<0.5
Methylene Chloride	5	<1	<0.5	<1	<1	<0.5	<0.5
Tetrachloroethene	5	<1	<0.5	<1	<1	<0.5	<0.5
1,1,1-Trichloroethane	200	<1	<0.5	<1	<1	<0.5	<0.5
1,1,2-Trichloroethane	5	<1	<0.5	<1	<1	<0.5	<0.5
Trichloroethene	5	<1	<0.5	<1	<1	<0.5	<0.5
Freon-11		<1	<0.5	<1	<1	<0.5	<0.5
Freon-113	1200	<1	<0.5	<1	<1	<0.5	<0.5
Vinyl Chloride	0.5	<1	<0.5	<1	<1	<0.5	<0.5
Total Halogenated Hydrocarbons							
Total Concentration of VOCs							

MCL = Maximum contaminant level for drinking water

All analyses by LBNL EML unless otherwise noted

All samples are grab samples

< = Less than Quantitation Limit

* = Analysis by BC Laboratories

[a] = Abandoned to prevent infiltration of surface water

Table C4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
Groundwater Monitoring Wells									
	3	MW91-4	Mar-96	BC				400 (Diesel)	
			Aug-96	BC	120				
			Dec-96	BC	110				
			Jun-97	BC				490 (Crude/Waste Oil) 490 (D) (Crude/Waste Oil)	
			Jun-98	BC				460 (Crude/Waste Oil)	
			Jun-99	BC				160 (Crude/Waste Oil) 98 (Diesel)	
		MW91-5	Aug-97	BC				100 (Crude/Waste Oil)	
		75-92-23	Jul-96	BC				ND	
		75-96-20	Mar-97	BC	<50 <50 (D)	<50 <50 (D)			
		75-97-5	Mar-99	BC				260 (Crude/Waste Oil)	
		69-97-8	Jan-99	BC				350 (Crude/Waste Oil) 250 (Diesel)	
		75-98-15	Feb-00	BC				ND	
SWMU 4-2	4	76-92-25	Mar-94	BC		<50		ND	
AOC 4-1,			Aug-94	BC	<200	<50			<1000
AOC 4-2			Dec-94	BC				ND	
			Feb-95	BC				ND	
			Nov-95	BC	<50	<50			
			Mar-96	BC	<50	<50			
			Aug-96	BC	<50	<50			
			Dec-96	BC	<50	<50			
			Mar-97	CLS				<50	
				BC				ND (D) ND (S)	
			Aug-97	BC				ND ND (D) ND (S)	
			Feb-98	BC				ND	
AOC 4-1,	4	MW76-1	Aug-92	BC	99	<50			
AOC 4-2			May-93	BC	<50	<50			

Table C4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
AOC 4-1, AOC 4-2	4	MW76-1	Mar-94	BC		<50		1700 (Crude Oil)	
			Jun-94	BC	450				
			Sep-94	BC	<200	<50			
				CLS	100 (D)	<50 (D)			
			Dec-94	BC				470 (Diesel)	
			Mar-95	AEN				1100 (a) (Diesel/Kerosene) 1100 (a) (D) (Diesel/Kerosene)	
			Jun-95	AEN	780	<50			
				BC	650 (D)	<50 (D)			
					530	<50			
				AEN	700 (S)	<50 (S)			
			Aug-95	BC	<200	<50 <50 (D)			
			Dec-95	BC	560	53			
				AEN		70 (D) 70 (S)			
			Mar-96	BC	290	54 63 (S)			
			Jun-96	CLS	<50	<50 <50 (D)			
			Aug-96	BC	730	<50 <50 (D)			
			Dec-96	BC	510 450 (S)	<50 52 (S)			
			Mar-97	BC	350 350 (S)	50 50 (S)			
			Jun-97	BC	390	<50 56 (S)			
			Aug-97	BC	230	<50 <50 (D)			
			Feb-98	BC	440	75			
			Sep-98	BC	360^	63			
			Feb-99	BC	540	160			
			Sep-99	BC	540	67			
			Feb-00	BC	480*	50*			
	4	76-93-6	Nov-95	BC				98 (Diesel)	
			Feb-96	BC				80 (Diesel)	

Table C4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
	4	76-93-6	Jun-96	BC				**570** (Crude/Waste Oil) **230 (S)** (Crude/Waste Oil)	
			Aug-96	BC				ND ND (D) ND (S)	
			Dec-96	BC				**120** (Diesel)	
			Feb-97	BC	<50	<50 <50 (D)			
			May-97	BC	<50	<50 <50 (D)			
			Jan-98	BC	<50	<50			
			Aug-98	BC	<50	<50			
			Feb-99	BC	<50	<50			
			Sep-99	BC	<50	<50			
			Feb-00	BC	<50	<50			
SWMU 4-3 AOC 4-1, AOC 4-2	4	76-93-7	Aug-94	BC	<200	<50			<1000
			Dec-94	BC				ND	
			Mar-95	BC				ND	
			Jun-95	BC				ND	
			Aug-95	BC				ND	
				AEN				<50 (b) (D)	
			Dec-95	BC	<50	<50			
			Feb-96	BC		<50 <50 (D)			
			Jun-96	CLS	<50				
			Aug-96	BC	<50	<50 <50 (D)			
			Dec-96	BC	<200	<50			
			Mar-97	BC	<50	<50			
			Jun-97	BC	<50	<50			
			Aug-97	BC	<50	<50 <50 (S)			
			Feb-98	BC	<50	<50			
			Aug-98	BC	**190**	<50			
			Jan-99	BC	<50	<50			
			Aug-99	BC	**110**	<50			
			Feb-00	BC	<200	<50			
AOC 5-4	5	77-94-5	Jun-94	BC	<200				
		77-94-6	Jun-94	BC	<200				

Table C4.4-1
Groundwater Monitoring Well Results
Concentrations of Total Petroleum Hydrocarbons and Oil & Grease
(Concentrations in µg/L)

RFI Unit	Area	Well No.	Date	Lab	TPH-Diesel	TPH-Gasoline	TPH-Kerosene	TPH-FI	Oil & Grease
	5	77-92-10	Mar-97	BC	<50				
			Feb-98	BC	<50				
			Feb-99	BC	<50				
Temporary Wells and Borings									
SWMU 4-3	4	SB76-95-3	Jun-95	BC		730		790 (Gasoline) 1500 (Diesel)	
	4	W76-97-3	Feb-97	BC	210	<50			
			Jun-97	BC	980	<50			
			Mar-98	BC	390	<50			
			Mar-99	BC	190	<50			
			Oct-99	BC	210	<50			
			Mar-00	BC	590	<50			
	4	W76-97-4	Feb-97	BC	460	<50			
			Jun-97	BC	340	<50			
			Mar-98	BC	390	<50			
			Mar-99	BC	500	<50			
			Oct-99	BC	210	<50			
			Mar-00	BC	740	<50			
	4	W76-97-5	Feb-97	BC	<50	<50			
			Jun-97	BC	<50	<50			
			Mar-98	BC	<50	<50			
			Mar-99	BC	<50	<50			
			Oct-99	BC	<50	<50			
			Mar-00	BC	76	<50			
Slope Stability Wells									
	3	SSW19-130	May-94	BC		<50		ND	

	= Not Sampled
<	= Constituent not detected above reporting limit
ND	= All target analytes not detected above reporting limit

TPH-FI - TPH-Fuel Identification
(D) = Duplicate sample
(G) = Grab sample
(S) = Split sample
(a) - Analysis for extractable range hydrocarbons, by American Environmental Network
(b) - Analysis for fuel scan by American Environmental Network, included Diesel, Kerosene, and Motor Oil
Analysis for TPH-FI by BC Laboratories included: Light Naptha, Aviation Fuel, Stoddard/White Spirits, Heavy Naptha/Ligroin/ Petroleum Benzin, Gasoline, JP4, JP5, JP8, Kerosene/Jet Fuel, Diesel, Crude/Waste Oil, Hydraulic/Motor Oil, and WD-40
- Temperature of samples was out of acceptable range when received by the laboratory
^ - Equipment/Rinse Blank contained 93 µg/L diesel

Table C4.4-2
Groundwater Monitoring Well Results
Semi-Volatile Organic Compounds
(Concentrations in µg/L)

Area	Well No.	Lab	Date	8270
3	MW91-3	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 12
	MW91-4	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 42
	MW91-5	BC	Aug-94	ND
	MW91-6	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 6
	69A-92-22	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 55
	75-92-23	BC	Sep-94	ND
	75B-92-24	BC	Aug-94	ND
	75-96-20	BC	Mar-97	ND
		CLS		ND (D)
4	MW76-1	BC	Sep-94	ND
		AEN		ND (D)
	76-92-25	BC	Aug-94	ND
	76-93-6	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 6
	76-93-7	BC	Aug-94	ND
5	MW91-1	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 4
	MW91-2	BC	Sep-94	ND
	MWP-9	BC	Aug-94	ND
	MWP-10	BC	Aug-94	ND
	77-92-10	BC	Aug-94	Bis(2-ethylhexyl)phthalate = 3
	61-92-12	BC	Sep-94	Bis(2-ethylhexyl)phthalate = 2.2
	77-93-8	BC	Aug-94	ND
	77-94-5	BC	Sep-94	ND
	77-94-6	BC	Sep-94	ND

AEN = Analysis by American Environmental Network
BC = Analysis by BC Laboratories
CLS = Analysis by California Laboratory Services
(D) = Duplicate sample
ND = All target analytes not detected above reporting limit

Table C4.4-3
Polychlorinated Biphenyls (PCBs)
Groundwater Monitoring Wells and
Temporary Groundwater Sampling Points
(Concentrations in µg/L)

Area	Well No.	Lab	Date	PCBs (8080)
Groundwater Monitoring Wells				
3	69A-92-22	BC	Apr-00	<0.2
	75-96-20	BC	Nov-98	<0.2
		BC	Apr-99*	<0.2
	75-98-14	BC	Apr-99*	<0.2
		BC	Jul-99	<0.2
		BC	Nov-99	<0.2
		BC	Feb-00	<0.2
		BC	May-00	<0.2
	75-98-15	BC	Apr-99	<0.2
		BC	Nov-99	<0.2
		BC	Feb-00	<0.2
		BC	May-00	<0.2
	75-99-4	BC	Jul-99*	<0.2
		BC	Oct-99	<0.2
		BC	Nov-99	<0.2
		BC	Feb-00	<0.2†
		BC	May-00	<0.2
	75-99-6	BC	Jan-00	<0.2
		BC	May-00	<0.2
	75-99-7	BC	Dec-99	<0.2
		BC	Feb-00	<0.2†
		BC	May-00	<0.2
	75-99-8	BC	Jan-00	<0.2
		BC	May-00	<0.2

< = Not detected above reporting limit (reporting limit shown)

BC = Analysis by BC Laboratories

* = Grab sample

† - Temperature of sample was out of acceptable range when received by the laboratory

Table C4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

AREA	WELL NO.	LAB	DATE	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
3	MW91-3	LBNL	Nov-92	**34**	<5.6	140	<0.7	<6.6	4.1		<6.6	3.5	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	180	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	240	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	<10	<10
	MW91-4	LBNL	Dec-92	<2	<5.6	130	<0.7	<6.6	5.3		<6.6	4.6	<6.2		130	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	Jul-93	**40**	<33.5	260	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	140	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	4	300	<10	<10	<10		<50	<10	<50	<0.2	110	<50	<2	<10	<100	<10	<10
		BC	May-95	<4	4	259	<10	<5	<10		<10	<10	<5	<0.2	100	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	8.7	318	<5	<40	<50		<50	<50	<40	<0.2	145	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	4.8	158	<4	<5	<5		<5	<5	<5	<0.2	89	<50	<2	<5	<1	<5	<20
		BC	Jun-98												120						
		LBNL	Jun-99												90.9						
	MW91-5	LBNL	Nov-92	**29**	<5.6	54	<0.7	<6.6	5.4		<6.6	6	<6.2		<12.2	<8	3.1	<0.9	<19	<6.7	151
		LBNL	Jun-93	<10	<33.5	65	<4.5	<9	<7		<20.5	8	<43.5	<0.1	<16.5	<61	3.6	<12.5	<98.5	<24.5	18
		BC	Mar-94	<100	<10	51	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	12	<10
	MW91-6	Q	Feb-92	<20	<20	36	<1	<5	<10		<5	<40	<20	<0.3	<10	20	<20	<5	<100	<5	8
		LBNL	Dec-92	<2	<5.6	25	<0.7	<6.6	4.8		<6.6	2.1	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	112
		LBNL	May-93	<10	<33.5	30	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<10	44	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	<10	<10
	69A-92-22	BC	Mar-94	<100	<10	70	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<20	<100	<10	<10
	75-92-23	LBNL	Sep-92	<150	<60	<70	<10	<70	<10		<70	<10	<60		<120	<60	<0.2	<10	<190	<70	<10
		C	Sep-92	<20	<5	90	<1	**650**	10		<10	110	<10	<1	<5	<20	20	<5	<10	<10	90
		LBNL	Nov-92	<2	<5.6	38	<0.7	<6.6	8.8		<6.6	4.2	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	86
		C	Nov-92	<20	<5	40	<1	<1	<10		<10	<5	<10	<1	<5	<20	<10	<5	**200**	<10	6
		LBNL	Dec-92	<2	<5.6	<6.5	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	1.1	<0.9	<19	<6.7	<7.7
		LBNL	Jun-93	<10	<33.5	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<10	23	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	17	<10

Table C4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

AREA	WELL NO.	LAB	DATE	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
3	75B-92-24	C	Oct-92	<20	<5	28	<1	<1	<10		<10	<5	<10	<1	20	<20	40	<5	<10	<10	6
		LBNL	Oct-92	<2	<5.6	<6.5	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	<2	<0.9	<19	<6.7	<7.7
		BC	Mar-94	<100	<1	110	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<1	<20	<100	<10	<10
	75-96-20	BC	Mar-97	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		CLS	Mar-97	<500	<50	<500	<50	<100	<500		<500	<500	<500	<5	<500	<500	<50	<500	<50	<500	<500
		LBNL	Jun-97	<4	3.3	<50	<4	<5	<5		<5	8.1	<5	<0.2	58	<50	<2	<5	<1	<5	<20
		BC	Jun-97	<4	5.3	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		BC	May-98	<100	3.5	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-99	<1	13.9	52.7	<1	<1	1.1		<1	<1	<1	<0.2	28.1	1.7	<2	<1	<1	4.3	<5
	75-97-5	LBNL	Aug-98	<1	<2	182	<1	<1	<1		<1	2.2	<3	<0.2	4.8	<10	<2	<1	<1	2.7	6.9
		BC	Aug-98	<100	<2	222	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-99	<1	4.6	650	<1	<1	2.1		1.0	<1	<1	<0.2	3.2	5.9	<2	<1	<1	<1	7.4
	75-97-6	LBNL	Aug-97	<4	2.3	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	2.2	<5	<1	<5	<20
		BC	Aug-97	<100	3.1	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	2.1	<10	<1	<10	<50
		LBNL	May-98	<1	5.7	26.3	<1	<1	11.9		1.0	1.4	<1	<0.2	6.8	<1	7.4	<1	<1	8.0	<5
		LBNL	May-99	<1	7.4	25.1	<1	<1	<1		<1	2.1	<1	<0.2	5.0	3.1	<2	<1	<1	8.8	<5
	75-97-7	LBNL	Jul-97	<4	3.0	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<5	<5	<20
		BC	Jul-97	<100	5.3	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-98	<1	11.3	20.1	<1	<1	8.0		<1	2.1	<1	<0.2	8.2	3.5	13.9	<1	<1	3.3	<5
		LBNL	May-99	<1	12.2	33.4	<1	<1	<1		<1	<1	<1	<0.2	6.3	10.7	<2	<1	<1	<1	<5
	69-97-8	LBNL	Jul-98	<1	2.2	404	<1	<1	23.8		4.5	6.5	<1	<0.2	3.2	25.9	<2	<1	<1	9.5	15.8
		BC	Jul-98	<100	2.1	442	<10	<10	<10		<50	14	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-99	<1	3.9	553	<1	<1	1.8		4.1	4.1	<1	<0.2	2.1	1.7	<2	<1	<1	1.3	7.0
	69-97-21	LBNL	Mar-98	<1	20.7	40.8	1.3	<1	10.4		<1	3.7	9.2	<0.2	8.7	<1	**145**	<1	1.5	6.0	14.7
		BC	Mar-98	<4	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	**160**	<10	<1	<10	14
		LBNL	Apr-98	<1	9.6	38.2	<1	<1	6.6		<1	<1	3.2	<0.2	6.5	<1	45.6	<1	<1	6.7	6.6
		BC	Jun-98	<100	4.2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	**72**	<10	<10	<10	<10
		LBNL	May-99	<1	9.9	29.0	<1	<1	<1		<1	<1	<1	<0.2	5.8	2.0	46.8	<1	<1	5.7	<5

Table C4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

AREA	WELL NO.	LAB	DATE	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
3	75-98-14	LBNL	Jul-99	<1	12.1	20.5	<1	<1	9.1		<1	2.7	<1	<0.2	16.9	4.7	23.1	<1	<1	28.5	<5
		BC	Jul-99	<1	<50	<100	<1	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	20	<10
	75-98-15	LBNL	Mar-99	<1	35.1	37.7	<1	<1	5.0		<1	2.2	<1	<0.25	107	<1	2.7	<1	<1	10.9	7.0
		BC	Mar-99	<1	<50	<100	<1	<1	<10		<50	<10	<5	<0.2	102	<50	<100	<10	<1	13	<50
	75-99-4	LBNL	Oct-99	<1	34.9	12.5	<1	<1	3.4		<1	<1	<1	<0.2	162	1.0	4.6	<1	<1	65.4	<5
		BC	Oct-99	<4	32.0	<100	<0.2	<1	<10		<50	<10	<5	0.27	150	<50	3.2	<10	<1	49	<50
	75-99-6	LBNL	Feb-00	<2	17.7	3.5	<1	<2	6.3		<1	<1	<1	<0.2	97.7	<1	7.1	<1	<1	14.4	<5
		BC	Feb-00	<4	20.0	<100	<0.2	<1	<10		<50	<10	<5	<0.2	90	<10	6.6	<10	<1	10	<10
	75-99-7	LBNL	Dec-99	<1	6.1	48.7	<1	<1	<5		<1	8.0	1.4	<0.2	5.3	4.5	<2	<1	<1	5.1	11.5
		BC	Dec-99	<4	2.2	<100	<0.2	<1	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
	75-99-8	LBNL	Feb-00	<1	**52.0**	<1	<1	<2	<1		<1	<1	<1	<0.2	140	<1	2.4	<1	<1	26.2	<5
		BC	Feb-00	<4	**57.0**	<100	<0.2	<1	<10		<50	<10	<5	<0.2	140	<10	2.0	<10	<1	20.0	<50
4	MW76-1	C	Sep-92	<20	<5	100	<1	<1	<10		<10	<5	<10	<1	30	<20	<10	<5	<10	<10	34
		LBNL	Dec-92	<2	<5.6	190	<0.7	<6.6	2.6		<6.6	2.8	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	117
		LBNL	May-93	<10	<33.5	220	<4.5	<9	<7		<20.5	<5.5	<43.5	<1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<1	330	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<1	<20	<100	<10	16
		BC	Jun-95	<4	<2	102	<10	<5	<10		<10	14	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		BC	Jun-95	<4	<2	260	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Jun-95	<20	4	290	<2	<5	<10		<5	<10	<40	<0.2	<10	<10	<4	<5	<50	<5	30
		AEN	Jun-95	<20	<2	290	<2	<5	<10		<5	<10	<40	<0.2	<10	<10	<4	<5	<50	<5	30
		LBNL	Jun-97	<4	<2	339	<4	<5	<5		<5	5.8	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
		LBNL	Sep-98	<1	2.1	355	<1	<1	32.2		1.1	3.3	<1	<0.2	1.1	7.9	<2	<1	<1	12.4	48
		LBNL	Sep-99						<1							5.4					
	76-92-25	LBNL	Dec-92	<2	<5.6	<6.5	<0.7	<6.6	<0.4		<6.6	<0.2	<6.2		<12.2	<8	3.1	<0.9	<19	<6.7	<7.7
		LBNL	Jun-93	<10	<33.5	<25.5	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	90	<61	1.7	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	17	<10	<10	<10	<10		<50	<10	<50	<0.2	70	<50	<2	<20	<100	<10	<10
	76-93-6	BC	Oct-93	<100	10	<100	<10	<5	<10		<10	<10	<5	<0.2	36	<50	<2	<10	<5	<50	<50
		AEN	Oct-93	<20	11	90	<2	<5	<10		<5	<10	<40	<0.3	30	<10	<4	<5	<100	9	<5
		BC	Mar-94	<100	12	70	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10

Table C4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

AREA	WELL NO.	LAB	DATE	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
4	76-93-6	BC	Jun-95	<4	68	<10	<10	<5	<10		<10	<10	<5	<0.2	18	<50	<2	<10	<5	<50	<50
		BC	Feb-96	<4	12	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<5	<10	<50
		LBNL	Feb-96	<50	7.7	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97		8.4																
		LBNL	Aug-98		9.8																
	76-93-7	BC	Jan-94	<100	24	<100	<10	<5	<10		<10	<10	<5	<0.2	57	<50	4.6	<10	<5	<50	<10
		AEN	Jan-94	<20	27	80	<2	<5	<10		<5	<10	<40	<0.2	70	<10	<4	<5	<100	11	10
		BC	Jun-95	<4	15	<100	<10	<5	<10		<10	<10	<5	<0.2	33	<50	3.6	<10	<5	<50	<50
		LBNL	Feb-96	<50	9.1	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97		11.4																
		LBNL	May-99		13.0																
	78-97-20	LBNL	Oct-97	<1	<2	45.8	<1	<1	<5		<5	3.3	<1	<0.2	<5	<5	11.4	<1	<1	5.5	<5
		BC	Oct-97	<100	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	13	<10	<1	<10	<50
		LBNL	May-98	<1	4.1	106	<1	<1	2.7		<1	1.6	<1	<0.2	3.1	2.3	16.5	<1	<1	4.7	<5
		LBNL	May-99	<1	2.5	105	<1	<1	<1		<1	<1	<1	<0.2	2.7	1.8	<2	<1	<1	4.3	<5
	76-98-21	LBNL	Jul-99	<1	5.1	12.9	<1	<1	6.6		5.7	2.8	1.2	<0.2	5.1	4.4	<2	<1	<1	8.6	8.9
		BC	Jul-99	<1	<50	<100	<1	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	<10	12
	76-98-22	LBNL	Jan-99	<1	4.7	220	<1	<1	5.1		9.3	4.6	<1	<0.2	77.4	4.2	5.3	<1	<1	6.3	8.8
		BC	Jan-99	<1	<50	120	<1	<1	<10		<50	<10	<5	<0.2	<50	<50	<100	<10	<1	<10	<50
5	MW91-1	LBNL	Nov-92	12	<5.6	53	<0.7	<6.6	3		<6.6	2	<6.2		66	<8	<0.2	<0.9	<19	<6.7	120
		LBNL	May-93	<10	<33.5	50	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	8	50	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
		BC	May-95	<4	9.4	<100	<10	<5	<10		<10	<10	<5	<0.2	34	<50	3.6	<10	<5	<50	<50
		LBNL	Mar-96	<50	2.7	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	6.0	56	<4	<5	<5		<5	5.1	<5	<0.2	<50	<50	<2	<5	<1	<5	99
		LBNL	May-98	<1	10.5	24.2	<1	<1	2.6		1.3	3.2	<1	<0.2	15.5	2.5	4.7	<1	<1	3.1	12.1
		LBNL	May-99	<1	14.1	27.1	<1	<1	<1		<1	1.3	<1	<0.2	22.1	1.0	<2	<1	<1	<1	24.1

Table C4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

AREA	WELL NO.	LAB	DATE	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
5	MW91-2	LBNL	Dec-92	<2	<5.6	327	<0.7	<6.6	3.7		<6.6	3.3	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	125
		LBNL	Jun-93	<10	<33.5	420	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<2	330	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	20
	MWP-9	LBNL	Nov-92	30	<5.6	72	<0.7	<6.6	5.3		<6.6	64	<6.2		<12.2	<8	1.9	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	90	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	1	110	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<1	<20	<100	<10	<10
		BC	May-95	<4	<2	102	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Feb-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	<2	184	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	MWP-10	LBNL	Nov-92	40	<5.6	29	<0.7	<6.6	<0.4		<6.6	3.3	<6.2		<12.2	<8	<0.2	<0.9	<19	<6.7	<7.7
		LBNL	May-93	<10	<33.5	20	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	<1	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	<10	22	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<10	<10	<100	<10	<10
		BC	May-95	<4	7.8	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<10
		LBNL	Feb-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	May-96				<0.5	<5											<1		
		LBNL	May-97	<4	3.9	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	<5	<20
	77-92-10	LBNL	Jan-93	<10	<33.5	120	<4.5	<9	<7		<20.5	<5.5	<43.5		280	<61	4.6	<12.5	<98.5	<24.5	<16.5
		LBNL	Jun-93	<10	<33.5	31	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	4.4	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	38	60	<10	<10	<10		<50	<10	<50	<0.2	240	<50	5	<20	<100	20	<10
		BC	May-95	<4	35	<100	<10	<5	<10		<10	<10	<5	<0.2	230	<50	8	<10	<5	<50	<50
		LBNL	Mar-96	<50	49.3	68	<5	<40	<50		<50	<50	<40	<0.2	250	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97	<4	6.9	<50	<4	<5	<5		<5	<5	<5	<0.2	292	<50	6.9	<5	<1	<5	<20
		LBNL	Aug-98		30										240						
		LBNL	Aug-99		31.1										210						
	61-92-12	LBNL	Jan-93	<10	<33.5	41	<4.5	<9	<7		<20.5	<5.5	<43.5		<16.5	<61	1.6	<12.5	<98.5	<24.5	<16.5
		LBNL	Jun-93	<10	<33.5	50	<4.5	<9	<7		<20.5	<5.5	<43.5	<0.1	<16.5	<61	3.6	<12.5	<98.5	<24.5	<16.5
		BC	Mar-94	<100	52	20	<10	<10	<10		<50	<10	<50	<0.2	140	<50	<10	<20	<100	20	<10
		BC	Jun-95	<4	23	<100	<10	<5	<10		<10	<10	<5	<0.2	210	<50	<2	<10	<5	<50	<50

Table C4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

AREA	WELL NO.	LAB	DATE	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
5	61-92-12	CLS	Jun-96				<0.5	<5											<1		
		LBNL	Jun-97	<4	10.3	<50	<4	<5	<5		<5	18.7	<5	<0.2	230	<50	<2	<5	<1	<5	34
		LBNL	May-99		11.7										130						
	77-93-8	BC	Oct-93	<100	<2	<100	<10	<5	<10		<10	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		AEN	Oct-93	<20	3	70	<2	<5	<10		<5	<10	<40	<0.3	<10	<10	<4	<5	<100	<5	<5
		BC	Mar-94	<100	<2	70	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<20	<100	<10	<10
	77-94-5	AEN	Jun-94	<20	16	330	<2	<5	<10		<5	<10	<40	<0.2	290	<10	89	<5	<100	5	20
		BC	Jun-94	<100	14	150	<10	<10	<10		<50	<10	<50	<0.2	290	<50	94	<10	<100	10	<10
		BC	May-95	<4	9.2	<100	<10	<5	<10		<10	<10	<5	<0.2	140	<50	15	<10	<5	<50	<50
		AEN	May-95	<20	15	30	<2	<5	<10		<5	<10	<40	<0.2	150	<10	13	<5	<50	10	<10
		LBNL	Mar-96	<50	4.1	<50	<5	<40	<50		<50	<50	<40	<0.2	145	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
		LBNL	May-97	<4	7.6	88	<4	<5	<5		<5	<5	<5	<0.2	106	<50	2.4	<5	<1	<5	<20
		LBNL	May-98		14.2										191						
		LBNL	May-99		11.2										137						
	77-94-6	AEN	Jun-94	<20	3	100	<2	<5	<10		<5	<10	<40	<0.2	<10	10	<4	<5	<100	5	<10
		BC	Jun-94	<100	<2	170	<10	<10	<10		<50	<10	<50	<0.2	<50	<50	<2	<10	<100	10	<10
		BC	May-95	<4	<2	110	<10	<5	<10		40	<10	<5	<0.2	<10	<50	<2	<10	<5	<50	<50
		LBNL	Mar-96	<50	<2	64	<5	<40	<50		<50	<50	<40	<0.2	<50	<50	<1	<50	<50	<50	<20
		CLS	Jun-96				<0.5	<5											<1		
	77-97-9	LBNL	Aug-97	<4	<2	526	6.7	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<1	5.5	<20
		BC	Aug-97	<100	3.6	440	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-98	<1	3.9	401	<1	<1	5.0		<1	3.1	<1	<0.2	11.5	<1	<2	<1	<1	5.0	6.0
		LBNL	May-99	<1	3.9	445	<1	<1	1.0		<1	2.7	<1	<0.2	9.9	3.6	<2	<1	<1	4.9	5.7
	77-97-11	LBNL	Jul-97	<4	<2	<50	<4	<5	<5		<5	<5	<5	<0.2	<50	<50	<2	<5	<5	<5	<20
		BC	Jul-97	<100	<2	<100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-98	<1	4.6	42.8	<1	<1	4.4		1.0	4.5	<1	<0.2	12.6	7.0	<2	<1	<1	3.8	14.5
		LBNL	May-99	<1	3.6	41.5	<1	<1	2.1		<1	2.6	<1	<0.2	7.4	7.4	<2	<1	<1	2.0	6.9

Table C4.4-4
CONCENTRATION OF METALS IN GROUNDWATER
(Concentrations in µg/L)

				Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
			MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
AREA	WELL NO.	LAB	DATE																		
5	31-97-17	LBNL	Oct-97	<1	8.3	227	<1	<1	<5		<5	<1	<1	<0.2	<5	6.0	3.3	<1	<1	4.9	<5
		BC	Oct-97	<4	5.9	288	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-98	<1	2.9	272	<1	<1	2.6		<1	1.1	<1	<0.2	1.4	<1	7.2	<1	<1	5.6	<5
		LBNL	May-99	<1	3.4	369	<1	<1	<1		<1	1.6	<1	<0.2	1.2	5.7	<2	<1	<1	10.2	<5
	31-97-18	LBNL	Oct-97	<1	6.6	88.6	<1	<1	<5		<5	<1	<1	<0.2	6.2	<5	<2	<1	<1	4.0	<5
		BC	Oct-97	<4	4.3	100	<10	<10	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50
		LBNL	May-98	<1	4.9	86.1	<1	<1	1.2		<1	<1	<1	<0.2	6.7	<1	11	<1	<1	2.2	<5
		LBNL	Apr-99	<1	3.4	145	<1	<1	1.5		<1	1.1	<1	<0.2	4.4	<1	<2	<1	<1	2.8	<5
	31-98-17	LBNL	Jul-99	<1	11.2	90.7	<1	<1	7.0		<1	3.0	<1	<0.2	10.7	2.3	<2	<1	<1	11.2	<5
		BC	Jul-99	<1	16	130	<1	<1	<10		<50	<10	<5	<0.2	<50	<50	<2	<10	<1	<10	<50

MCL: Maximum contaminant level for drinking water (determined by California DTSC)

(a): secondary MCL

(b): action level

NS: Not Specified

* = Grab sample

<	= not detected
40	= concentration above MCL
	= not analyzed

AEN = Analysis by American Environmental Network
BC = Analysis by BC Analytical laboratory
C = Analysis by Chromalab
CLS = Analysis by California Laboratory Services
LBNL = Analysis by Lawrence Berkeley National Laboratory
Q = Analysis by Quanteq

Table C4.5-1
Surface Water Sampling Results
Concentrations of Organic Constituents
(Concentrations in µg/L)

			VOCs	SVOCs
Location	Date	Lab	8260	625
Chicken Creek	Jan-93	LBNL	ND	
	Aug-93	LBNL	ND	
		C		ND
	Mar-94	LBNL	ND	
	Jul-94	LBNL	ND	
	Jan-95	BC	ND	
	Jul-95	LBNL	ND	
	Jan-96	LBNL	ND	
	Apr-96#	LBNL	ND	
	Apr-97	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	
No Name Creek	Mar-94	LBNL	ND	
	Jul-94	BC	ND	
	Jan-95	BC	ND	
	Jul-95	LBNL	ND	
	Jan-96	LBNL	ND	
	Apr-96#	LBNL	ND	
	Apr-97	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	
Ten Inch Creek	Jul-95	LBNL	ND	
	Apr-96#	LBNL	ND	
	Jan-98	LBNL	ND	
	Apr-99	LBNL	ND	
	Jan-00	LBNL	ND	

ND	= Not detected above reporting limit (reporting limit varies with analyte)
	= Not analyzed

- All April 1996 creek samples missed holding times for 8260 analysis

Table C4.5-2
Sediment Sampling Results (mg/kg)
Concentrations of Organic Constituents

Location	Sample ID	Date	Lab	VOCs 8260	SVOCs 8270	TPH-Diesel 3550	TPH-Gas 5030	PAH 8310	PCBs 8080	Pesticides & PCBs 8080
Chicken Creek	SSCH-1A/2A-0.2	Apr-93	Q	ND*	ND	63**	<0.2			
	SS-Chick-96-1A-0	Aug-96	BC	ND	ND					
	SS-Chick-96-2A-0			ND	ND					
	SS-Chick-96-3A-0			ND	ND					
	SS-Chick-96-4A-0			p-isopropyltoluene=0.0058	ND					
	SS-Chick-96-5A-0			ND	ND					
	SS-Ckn-98-1-0.0	Jan-98	BC					ND	<0.02	
	SS-Ckn-98-2-0.0							Benzo(a)pyrene=0.075 Chrysene=0.028	<0.02	
	SS-Ckn-98-2A-0.0	Feb-98						ND	PCB 1254=0.014	
	SS-Ckn-98-3-0.0	Jan-98						ND	<0.02	
	SS-Ckn-98-4-0.0	Feb-98						ND	<0.01	
	SS-Ckn-98-5-0	Jun-98	BC							<0.003^
	SS-Ckn-98-6-0									<0.003^
	SS-Ckn-98-7-0									<0.003^
No Name Creek	SS-Noname-96-1A-0.0	Aug-96	BC		ND					
	SS-Noname-96-2A-0.0				ND					
	SS-Noname-98-1-0.0	Jan-98	BC						<0.02	
	SS-Noname-98-2-0.0								<0.02	
Ten Inch Creek	SS-Ten In-96-1A-0	Aug-96	BC		ND					
	SS-Ten In-96-2A-0				ND					
	SS-Ten In-96-3A-0				ND					
	SS-Ten In-96-4A-0				ND					
	SS-Ten In-96-5A-0				ND					
Building 75/69 Storm drain	SS75E-1A-0	Apr-93	P/C	ND *	Fluoranthene=0.85 Phenanthrene=0.78 Pyrene=0.88	260^^			PCB 1254=0.5	

BC = Analysis by BC Laboratories
Q = Analysis by Quanteq
P/C = Analysis by Precision Lab, and Chromalab
* = Analyzed by EPA Method 8240
** = Oil detected

	= Not analyzed
ND	= Not detected above reporting limit
<	= Not detected above reporting limit (reporting limit shown)

^ - 8080 analysis only included Aldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and Dieldrin
^^ = Analyzed for total extractable petroleum hydrocarbons, reported as motor oil.

Table C4.5-3
Surface Water Sampling Results
Metals
(Concentrations in µg/L)

			Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
		MCL:	6	50	1000	4	5	50		NS	1000 (a)	15 (b)	2	NS	100	50	100 (a)	2	NS	5000 (a)
LOCATION	LAB	DATE																		
Chicken Creek	C	Aug-93	<20	<5	72	<1	<1	<10		<10	6.0	<10	<1	<5	<20	<10	<5	<10	<10	<5
	BC	Jul-94	<100	3.0	<100	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	<50
	BC	Aug-95	<4	<2	110	<10	<5	<10		<10	<10	<1	<0.20	<10	<50	<2	<10	<5	<50	<10
	BC	Jan-96	<4	4.0	<100	<10	<10	<10		<50	<10	<5	<0.20	<50	<50	<2	<10	<5	<10	<50
			<4	4.2	<100	<10	<10	<10		<50	<10	<5	<0.20	<50	<50	<2	<10	<5	<10	65
	LBNL	Apr-96	<50	3.4	<50	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	22
	LBNL	Apr-97	<4	2.6	118	<4	<5	<5		<5	<5	<5	<0.20	<50	<50	2.6	<5	<1	<50	<20
	LBNL	Jan-98	<1	<2	55.8	<1	<1	<5		<5	4.2	<1	<0.10	<5	<5	<2	<1	<1	3.7	18.9
	LBNL	Apr-99	<1	3.4	109	<1	<1	8.9		<1	3.4	<1	<0.25	1.6	1.6	7.6	<1	<1	23.1	16.4
	LBNL	Jan-00	<1	<2	68.9	<1	<1	1.6		<1	2.9	<1	<0.20	1.5	<1	<2	<1	<1	21.6	11.9
No Name Creek	BC	Jul-94	<100	3.0	120	<10	<5	<10		<10	10	8	<0.20	<10	<50	<2	<10	<5	<50	<50
	BC	Aug-95	<4	<2	<100	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	<10
	BC	Jan-96	<4	3.0	<100	<10	<10	<10		<50	<10	<5	<0.20	<50	<50	<2	<10	<5	<10	<50
	LBNL	Apr-96	<50	2.9	<50	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	<20
	LBNL	Apr-97	<4	3.2	99	<4	<5	5.9		<5	<5	<5	<0.20	<50	<50	<2	<5	<1	<5	<20
	LBNL	Jan-98	<1	3.4	51.2	<1	<1	<5		<5	4.2	<1	<0.10	<5	<5	12.3	<1	<1	4.2	<5
	LBNL	Apr-99	<1	2.4	109	<1	<1	7.4		<1	1.1	<1	<0.25	1.2	1.8	5.0	<1	<1	6.1	<5
	LBNL	Jan-00	<1	<2	80.1	<1	<1	<1		<1	<1	<1	<0.20	1.8	<1	<2	<1	<1	3.8	<5
Ten Inch Creek	BC	Aug-95	<4	<2	110	<10	<5	<10		<10	<10	<5	<0.20	<10	<50	<2	<10	<5	<50	66
	LBNL	Apr-96	<50	<2	<50	<5	<40	<50		<50	<50	<40	<0.20	<50	<50	<1	<50	<50	<50	<20
	LBNL	Jan-98	<1	<2	41.3	<1	<1	<5		<5	2.3	<1	<0.10	<5	<5	<2	<1	<1	1.4	7.7
	LBNL	Apr-99	<1	<2	88.6	<1	<1	8.1		<1	1.9	<1	<0.25	<1	1.3	5.3	<1	<1	2.9	<5
	LBNL	Jan-00	<1	<2	61.2	<1	<1	<1		<1	4.3	<1	<0.20	<1	1.5	<2	<1	<1	1.8	<5

MCL: Maximum contaminant level for drinking water (determined by California DTSC)
BC = Analysis by BC Laboratories
C = Analysis by Chromalab
LBNL: Analysis by Lawrence Berkeley National Laboratory

< = Not detected above quantitation limit
\- = Not analyzed

(a): secondary MCL
(b): action level
NS: Not Specified

Table C4.5-4
Sediment Sampling Results
Metals
(Concentrations in mg/kg)

Location	Sample ID	Date	Lab	Sb	As	Ba	Be	Cd	Cr	Cr6	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
Chicken Creek	SSCH-1/2A-0.2	Apr-93	Q	<2	2	83	<0.2	0.5	45		9.1	34	35	0.2	<0.6	43	<2	0.5	<3	28	150
	SS-Chick-96-1A-0	Aug-96	BC	<10	2.5	71	<1	<1	47		11	22	9.3	<0.2	<5	42	1.2	<2	<10	46	94
	SS-Chick-96-2A-0			<10	3.6	145	<1	<1	44		19	19	14	<0.2	<5	59	1.2	<2	<10	48	97
	SS-Chick-96-3A-0			<10	3.1	84	<1	<1	30		12	22	15	0.21	<5	37	<1	<2	<10	41	114
	SS-Chick-96-4A-0			<10	5.7	134	<1	2.2	58		14	69	38	<0.2	<5	55	1.5	<2	<10	49	257
	SS-Chick-96-5A-0			<10	5.0	116	<1	1.4	52		14	35	58	<0.2	<5	54	1.2	<2	<10	58	149
No Name Creek	SS-Noname-96-1A-0.0	Aug-96	BC	<10	9.3	212	<1	<1	36		13	66	19	<0.2	<5	43	2.4	<2	<10	51	78
	SS-Noname-96-2A-0.0			<10	9.9	199	<1	<1	30		19	31	24	<0.2	<5	47	2.2	<2	<10	37	86
Ten Inch Creek	SS-Ten In-96-1A-0	Aug-96	BC	<10	5.1	103	<1	<1	41		10	37	22	<0.2	<5	37	1.5	<2	<10	38	81
	SS-Ten In-96-2A-0			<10	8.0	131	<1	<1	41		10	38	44	<0.2	<5	41	1.5	<2	<10	43	89
	SS-Ten In-96-3A-0			<10	8.0	156	<1	<1	35		13	37	31	<0.2	<5	43	1.6	<2	<10	44	92
	SS-Ten In-96-4A-0			<10	9.3	154	<1	<1	37		11	37	39	<0.2	<5	42	1.9	<2	<10	41	93
	SS-Ten In-96-5A-0			<10	7.9	119	<1	<1	32		8.5	35	23	<0.2	<5	33	1.3	<2	<10	37	78
Building 75/69 Stormdrain	SS75E-1A-0†	Apr-93	C	<1	<0.25	63	0.2	3.0	40		8.6	66	160	0.46	3.1	39	2.5	<0.25	<2	23	530

BC = Analysis by BC Laboratories
Q = Analysis by Quanteq

< = Not detected above reporting limit
= Not analyzed